

agngcggcgc accgagacgg acgagaaaga gaccaccccc gccgcaccaa accagaagaa 240
 cgagatggcg gtgcaaccaa gccacgatcg agtggagacg aagcaccag agggagccccg 300
 ggagacccgc gaaggcaaca cgaggcgcca ataacagagc acgagccgaa acacggctac 360
 gccacgggag caccagagg aaccacgcg aacgcgacag cgcacggagg aacggatacc 420
 acccagcca acaccagaac atcgagagga gccagcaca gagagcgagg caacgnncgc 480
 cgaggaagac cccagagagg atctcgagga gcaaccaccg gagccagccg cggaacaccc 540
 tgaccacaca gaagaagacg agcg 564

<210> 28786
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28786

tggatattgg atagcacgtg gaatagccgc cctatctgtt cntttggaga aaaaagctag 60
 gcgtggtgag ctagctttat atgttcttcc cagagcagta gattcattgt ggtatatctt 120
 ggtgaacagg caccttcttc caaatatcag gaatgctgag gtatgccctc tagttacttt 180
 gcactgaatt aaaggaaact cttttctgat ctgttttctt agcatcctcc aaaaataatt 240
 ttctagaact ctagtgacaa ccataatttg ctatgaaatg aaagtcagct tttattgttg 300
 atacctcttt tgatgtttnt aagttccaat atctatccgt gcagttagag aatgtgagaa 360
 ttttcttaaa agggaattaa gaacagtatc tctcaccatg tctcaaattg cagtatgctt 420
 gtcttttg 427

<210> 28787
 <211> 284
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28787

gacttattcc ttattggang gcaccttctn tcacgtctga tacattgtct tgcgctgcta 60
 tctccatgga ggaaaatcac ccattaagga cctcattgct gccaaagatc cagcctccat 120
 agaagcccca cggggcgctt acatcactgg ctctgaggat cgacgatgga ccaacacagc 180

gactatcatg gaaagcgggtt ccattggtaa aggtgacctg cggacgcaca tctggataat 240
atggcacgta ggaattaaag agtcctatgc cagccgccta tcca 284

<210> 28788
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28788

ggctctaaat ttacattgan gnnngtatnt attgtatgtt gttgcacgnc atttacgatt 60
taagagtagt gtcccaactgg taaaactaac tttccaaatg tttgccttcg caggaaatgg 120
ccccgaggaa gcttgccctca aagaggtcca ggaaggacaa ggcagccgaa ggaactagtt 180
ccgctccgga gtatgatagt caccgcttta ggagtgtgt acaccagcag cgcttcgagg 240
ccatcaaggg atggtcgttt ctccgggagc gacgcgtcca gctcagggac gacgagtata 300
ctgatttcca ggaggaaata gggcgccggc ggtgggcac actggttact cccatggcca 360
agtttgatcc agaaatagtc cttgagttnt atgccaatgc tttgccaaca g 411

<210> 28789
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28789

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atggcacctc ctctcacctc ttctccttg tcttccgctg catctccatg gtggaaaatc 120
accattaaag gacctcattg aagctcaaag atccagctc catagaagcc ccacaagcaa 180
gcttccatca ctgcctttga ggatcgagga tagacgaaca aagcacctaa gaaggaagga 240
ggttccattg gtcaaggtga cctgnggagg tacatcagga gaagatgcca cgtgggaatt 300
agagagtcag atgcaagccg cctatccatc cttgtttgag tcaggtaaatt ttccggggacg 360
aaatttctaa aagggttagga gagttgtaac accctgagat attataagtt atatatcgat 420
gtttaa 426

<210> 28790
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 28790

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 ccatcttctc aactaaattt ctggcttcag caggggccat gtctccaagg gctccaccac 120
 tagcagcatc gatcatactt ctctccatgt tactgagacc ttcataaaaa tattggagaa 180
 gaagctgctc agaaatctgg tagtgagggc aactggcaca caatatcttg aatcttacct 240
 aatactcata catgctttct ccaccaagat gcctgatgcc tgaaatgact attctgatgg 300
 cagcggctct ggaagcaggg aaaagttttt ctaagaatac tctcttgagg tcatcccagc 360
 tcgtgatg 368

<210> 28791
 <211> 572
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28791

acccccacac cgtcaacatc tcacantatg ctctctatta cctactcnaa gacancgaca 60
 ctgaccntc caacaacaca accgcagaa aaatttgaga cttgacgacc tcgcaacacc 120
 gngacaactn aaganacacc gcctagagca ggcaagaaga caacaaccag cggaataca 180
 ctcttcataa cggagccacc accaatgctg aggccgtcaa aaaaacaccc tccgaacata 240
 cgagcccttc atgaccatga agggctaaac aacccttggg tgaggagcgt accactaaac 300
 tctcgtgatg gaaaaacccg aacaatctat acaatgttag agctaggacc accgcgcctt 360
 ccggtgtgta tatatatgta cttgagggtga tcatccacct atatggcatg gtagggctta 420
 agcactgcca aagaggcgaa atccttagaa cctgaaagag catccaaaat gatccagtgc 480
 taagggaat gtgcgtact gtgacacgt aagcgggcag gagctcgcta atcgagagta 540
 cagaccaatc ccagccgcag aacacgctaa cn 572

<210> 28792
 <211> 438
 <212> DNA

<213> Glycine max

<400> 28792

gcttgaagag agacaacaat ggtggtgaag aaaacgaaca agtaacatgt ttgaagttat 60
agagaggcgc gctggaagtt tctggagaaa gagagagaag atttggcttt tagaatggtt 120
tttcttttct ttctcatttt ctttctaaaa gcaaatccac atgtcatttg ttaattggag 180
cacaaagggt ccacctttac ctttgacttg accgcgtact caaccctcac acaagaagaa 240
aattggacct ttctggacgc tgaaatccta cctcggattg cgtggtgcct ctccggttgc 300
atttgttcgc gtttctctac acccgtccag gccattttc agaggtaggc agtatataca 360
tatgtatatg tatatagata tatatatata tacatactct catctatata tatatgtcaa 420
gacgctcaca atgagacc 438

<210> 28793

<211> 271

<212> DNA

<213> Glycine max

<400> 28793

tgctcaagga tcgtagtgcg attgggcgcc attgagtgtg ttatgctcaa atctgggccc 60
ttctgggaga ggttggtgct tgtctggcct gtgcctcttg ttcgacttgt gtgaatcggt 120
cttggtgctt ctttctcgct tgtcgcgctt ctgtctggct tggctgactt tgatcttgaa 180
tctagacatt tcctctatct agatgaaccc ttgcccgggt catggcattc cgtcctgctc 240
ctatgggttt ttgcccac tggttcaac c 271

<210> 28794

<211> 423

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28794

taccocatatt gatgagttat tnttttaagt ctacattctt taactgtttg tcaaaanttg 60
atgcaatgtg gcgaatgcaa tacacataag atacatccgg tccaatccac ccaactcggt 120
ttgattgcaa agctgctagt aaagtgggtc acctgtctaa tataatacat aaatttggtt 180
aaagtgtaac atatctcttc aaataatgca agaaccacat ccaaacttct ttgatctcgc 240

tctcaacaat tgcaaaagaa agtggaaaat tatttctact accatcttgt ctaatggcag 300
tcaacaaagt accataatat tttccagtta aaaatgtccc atctgcttgc tcaattggct 360
tgcaatattg aaagccttca atgcatagct tanaagccca aaatacacga ttaagaatca 420
cct 423

<210> 28795
<211> 427
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28795

tgagctggag gaagaagaca atcattgnga atccattctt tttccctgat tcaccttcat 60
tccttatccc ttcacttttt acatcccttg tacatttgag cccttcatga ccatgaaggg 120
ctaaacaacc ctgggttgag gagctttcca ctaaactctc ttgatgtaaa aactcttact 180
atctatttaa tgttattgct agtttcattg ttccttctg tgtttattta tatgtacttg 240
gtttgatcat ccatttatat gttatgtag ggtttaagca ttgtaaaata tggtaaattcc 300
ttagaacttg aaagagcatc taaaatgatt cattgctagg gataatgtgc gctactttgt 360
ctcgtaagc gggcaggtgc ttgctaactg aaagttatag accaatccca gctgtagaac 420
tcgctaa 427

<210> 28796
<211> 420
<212> DNA
<213> Glycine max
<400> 28796

tgtaggggta aagtctcacg attggcacgt gctgatgctc atttgtagc cgaggctata 60
cgagacatct tgccaaacaa agtcagggta gcgataactc gcctgtgctt tttcttccat 120
gctatatgta gcaaagtcac tgattcagtc aagtttgatg agttggaaaa tgaggccaca 180
attatactgt gccagttgga gatgtatttt cccctgctt tctttgacat catgattcac 240
ttgattatgc atctggtcag agaaatcaaa tgttgtgggc ctgtttatct acgatggatg 300
taccgggttg agcaatacat gaagatctta aaagggtata caaagaatct atatcgctca 360

gaagcatcat ggcagaacaa gctagacatg tattttacgt gcaagaccct tgtgatgaaa 420

<210> 28797
<211> 418
<212> DNA
<213> Glycine max

<400> 28797

cttaccatca gcaatgaaaa gatcttgata ttaaacagta atctttcaat tggcaaacga 60
ggctcatttt accaaaacag agcttaaaga aagataagat tgagattata gatatacatg 120
gaatatcata ggatttggtta ctactgtggt ctaattatct taatagatat acaaataagg 180
tgcttctcct agcacacttt caattcatat tcaatagttc ccaatggtaa cccaaacaag 240
aacttaatct tccatatatg cacaagcatt aaaggagaaa agaactctgaa agttcattaa 300
agtaatttgt cggtcagatt gtgaaaggag aaagaagggt acaccttcca ctctcttttg 360
gctttataga ttataaaaca gtgaaatggt cacttgctta agcaaaacag atcttatt 418

<210> 28798
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28798

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tcaatcaatt cattcacaaa cacttatttc atacaaaaca accactgaat caaattcaac 120
caattcactg ttcaaacaag ctttttgtac aagcactcaa caacactaaa ataactggaa 180
tttcaaaaga ctggaatttt aatgaataaa acataaataa attaaataac tgataaacta 240
aattgttcat aatttgtaga aattaaatca aatagaatt taaacatcct gctcatcccg 300
tggttgatct tcattcatat ccaatactgg agctactgat gaatcctgaa tgggtgggctc 360
aggctcaaaa attggtactg atggcaaggt ctctcanga gctggtgcaa gggatggctn 420
tggcatggga tttg 434

<210> 28799
<211> 333
<212> DNA
<213> Glycine max

<400> 28799

actaagctgc cgagcctacc ggttcagggg tgccctcattt agttcttagg ccgactcccg 60

ctctacgaag cacgaaaccc tccaaattca ccggtgggca tgtctaagca tatcagagta 120

cagttggaat tctgaaagac atttagatta ctttaatgac ctaaggattg ctttcaattc 180

ataaatatta actttgacta tataacaggc atctaactga acaagtatgc gacgggaatt 240

tgataaatgg attctgaccc agtcattcaa ggtctgggca atcgcgctgt actgaagtac 300

atatgagtga tcacagttca aatggagtta ttt 333

<210> 28800

<211> 431

<212> DNA

<213> Glycine max

<400> 28800

actcagcttt gaaacaaact gccctggatt cgattactat ttattaaact ctcttgtaaa 60

agcttttgtt aaaacttcat gtgctactca atgttttgaa aaacttttta gtacttatct 120

tgattgagtc tttttcttga ttcttgagtc ttgaatcttg atcttgatta ttcttgattc 180

ttgattcttg acaacttgaa acttgaaact tctcttgaat ctttctcttg attcttgaat 240

tgttcttgac tcaatcttga aatcattctc ttgggctttt tgtcatcacc tttgttatca 300

tcaaaacacc ttgaatcaat cttgattcat catcatgaag gaatgaagct tgtttctaca 360

tttaagacaa tacatgctga gccataccac ctggctgata tccaagatgg acccggtcaa 420

gtacatcttt g 431

<210> 28801

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28801

ntttgatcgc tgnacaatcn gnaaccatgg aaaannaccg ctctgagcgn gagtatcaga 60

gttgctagcg aanaacctct tttttctcac aaaacaaact ggaaagatat agactgcata 120

ctctctatt ccttgtgata tgataacata tctctcact taaagaagta tcgttatgct 180

acctttaatc actttaataa taacacttgg tggaaggaaa aaagacaaat gctgtcatat 240
 attaaataaa acacaaatat tcctatacac acaatgtatc gataccaga tatagacaag 300
 aatcattata acctaccatt agcgttccat tacgoggacc attgttgccc tactcattga 360
 ttgagcttaa tgtccaacaa gaataaaagg gtgaagccat atatggacaa ctagtctacc 420
 aattgctgta atcacccaag cgactttgac gtcgg 455

<210> 28802
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28802

attgaacttg gacttgtgac ttcgaaaacn caacntgaag ataggcgagc gggggagacg 60
 acagagagtt ttacatttcn attcntacca aggcgagcaa agagagaaag gatcgctcac 120
 accacgccta catatggaac gaaaagagaa tgcgatagtg agcgaaacga taaagcttga 180
 agaatgactc aacactgtgg agacgacata tcctaactat gcacaacgag gattagctaa 240
 tgaagggacc cactattgta tgatcaagct caagaggcct aactaagtg tgcgtaggag 300
 tacagtggca ggaccatgag atacacgcac ntaccgtaac tatagtaccg cgacgccgcg 360
 gtgagccagc cacagcgagc cgaaaacata cgggtggaaca aaagccaacc tgaatcgtgc 420
 tgcccacaca ttgacttata ctacaccccc gccagactca atcccc 466

<210> 28803
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28803

gggatgtgaa cgagatatcg cgggatatat acttgtgatt gccaaacaat aacgacatcc 60
 atcgtctact acgaattaga gagacatatg ggctgacagg tatgtttgat tctatcgatt 120
 gcatgcatcg gaaatcgata aatcgtctag ctgcattaca aggtcaatat tggacaagtg 180
 atcattgcat acccataata atacttgaat gcgtgccgta tcacgacttg tgcatttgac 240
 atgcattatt atggagtggg ggattcaaca tgatgacatt aatgcgtcaa accacatcat 300

ttgtgttttaa tgacattntg gaaggttgag ctctctactg caatatacaa tgaatcgaac 360
 cccatataat atgagatact atattgtaga tgacgtttat cctgat 406

<210> 28804
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 28804

tgaactatag tattgctatc tctgagctgg tcatgccctt tacactattc gcttaaattt 60
 agcaacagag ttgccaatac gttcttccaa atttttcaac atttggtaca agagtgaaaa 120
 atatgttgga aaagaagagt gaaaaaccaa agatcatgca tgattgtatg ttaagcaatg 180
 aaaaaaagtt ggtgggggaa gtgagtatgg caaacacaac agcgggtgtg tgataatcga 240
 tctagtttgg atctttatag atttttatct ctgaattggc ttgatcctct gctctagaac 300
 agaactgtgt gacatttact tagactaaca ggctacatct tcattgtgcc gataacacgt 360
 gatggatcag tttcgtgaac ctcaacagaa gccagttcat ttgccattat gtctgctggg 420
 aa 422

<210> 28805
 <211> 354
 <212> DNA
 <213> Glycine max

<400> 28805

caagccgcag aaatacagca tgtcctactc catgtttaaa ctcaccatat accacatatc 60
 ttgactgata catgtttcaa gatgctcgac tctagaacct agaacaagaa aactcggggg 120
 acgggagaat gaccatcttg actcatagta attaatacac aaactctcta tacacacttg 180
 aaatgcacac gcctctatca agcaaaaaa ttctgggcct cctagtcgca tatccatgaa 240
 cgaggccaac agcttgcata actcacggac cttgaccttg atagaccgac acgtgatact 300
 acgattaata cccttcatgg tgatccacac gaactggctg atagccgaca agga 354

<210> 28806
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 28806

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atgagagaag tccttccccc atcttctact atgaatatta ttgngatgaa aattatattt 120
ctgataaact agtcaaggct ccccatgggt tagctaaagc agtatcaagt tttaacattt 180
tcaattagtt gattgaaact ttgtaatcag ccatagcaac cgtgagtccg tgatttccca 240
taatttcaca gtgatactgc aaacatttta gaaacctaact ctctatctaa tcttactgta 300
gttaatccat atctgtgggt atttgaaact ttttaagtat gcacttttga aatctccttt 360
tacactataa ttagttggat gaatatattn ttgccctct tcaacaaatt acaaactc 420
ttcatc 426

<210> 28807
<211> 192
<212> DNA
<213> Glycine max

<400> 28807
agagcatggt gaactaatgg acgtcaatat ggccacaacc gaagctttgg aacgacaatc 60
ctggaaggcc cgcttggtat aacacgagct cagccacagt tttgaggggc ttaataaggc 120
agcaataacg agtcatgct ccgaagaggc gaaaagaatg atcacgggtc acatgcatga 180
tcttcacgga ct 192

<210> 28808
<211> 563
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28808

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ggctattcgt aaaaaaaaca cgagaacgaa aattgaaact tgagnacctg agnaccctcg 120
aganaccggn ngaaaatcaa acacgcacgc tgggcatagg acgacaagac aagactgagc 180
ctttttgcct ttatagnacg acaagagagg gaaggtggac ataaactcac caactgacgg 240
agacttccgt actaaaagga acaatattgc gcgacataga aggggagacc atgagatgct 300

gcagatgagc tagaagagcg ccacatatgg atggtggacg caacaagtta ggaacaacca 360
 tagaacggct agagaaacct caaccgggat gattcccaga cgggtgtaaaa cccagcaacg 420
 accagtaaat atgcaaggga accaatcgaa gcaaaaatac gcaggctaac agtatcactc 480
 tgtgtggtgc gcagaggaga gctggataga gctaccatcg catgagacgc aggactagg 540
 cacatcaatg cgggcaaaaa gac 563

<210> 28809
 <211> 207
 <212> DNA
 <213> Glycine max

<400> 28809

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 gttcgcgcta cacaccttga cccgtgctca ttggttgcac ggacgcacta atcgagtgcc 120
 tcacgctaaa cccgaaaacc tgtgcggaat ataactcctt taaataggtc ataccgcgaa 180
 tgccgcgataa gaaccattgc ttctctg 207

<210> 28810
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 28810

tctaaacttt atacaagaat gaagctctga taccattgt tagacttttg gcctcagata 60
 tcttaagaag ggggggttga attaagatat tccaaactac ttccccaatt aaaatctatt 120
 tcaactctctt ttcaagttat aaattccctt aacaatgaac ttcttaaata ttaattcaaa 180
 taagacaatt tgaatatgaa tatcaagcaa taataaaca aggagataaa gggaaaagaa 240
 agtccaaact caaattatta ctggttcggc ccaccttggg gcttcgtcca gtccccaacc 300
 aaccggttg aaagtccac tatctggtaa attcctttta caagtcttaa ccacataagg 360
 acaatccttc cttgggggta aaaattcctt aacaccagaa aac 403

<210> 28811
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 28811

tcttcggagg cagtaccgtc gctatcctcg gcgcggtctt tcaactgtgac ggcgacatcg 60

ccgacttggt ccgcggcggc ggccgaggac ctgacgggtg ggtcgagga tggaggcggc 120

ggcgcgcacg agacgggtgc ggtggatcgg cgaggcgagt actcagcgt gtgccgatgg 180

acgggtgcaca atttcctcgc gataaaggct agggcacttt ggagcaagta ctttgaggta 240

ggcggttacg attgtcgggt gctaataatc cccacgggtg actcacaggc gctgccaggt 300

tacatctcca tttaactcca aatcatggac cccgcgggca cctcttcctc caaatgggac 360

tgtttcgcca gctatcgctt ggcaatcgtc aacctcgccg acgattccaa aaccatccac 420

cgcgattcc 429

<210> 28812

<211> 300

<212> DNA

<213> Glycine max

<400> 28812

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gaaaagatgg gcacaggctt ttggatagaa cgaagactgc aatatcgtag ggtttgaaga 120

acactatgac acctgaaagt gtcgctctca ctctacgct tctactgtac acacaccaac 180

cctatgtgtc atgacctatc agtcaatcca tgcattgctt gacacgctaa gcctcactct 240

ctcacttagt acacatgtaa tcaagtccac cagcacattc gagactgaat ggtatacgct 300

<210> 28813

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28813

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cgtgagctca gttgaagggt ggcaactggg gatgggtgggt tcatgtttga tttgtggaag 120

tgggagattt gatttgagcc atcgcccgat agccacctag taccacatat gacgggtacc 180

ccataatcca acaagcttga tgtgagaaag cgtggaagag tcagtcttcc tacttttgtt 240

tggtgaccac agagtggtag ctggagatat gtcacgggga tcaggagacc ttggggacgt 300

caggtggggt gctattgccc aaaaccaagc ttgaccaatc ccgaccaac cggggcatag 360
 tcagtcagtg agaacctgtg atgtacctaa acaggcgatc tcctggcagt caaccaataa 420
 aagaacaaag tcca 434

<210> 28814
 <211> 436
 <212> DNA
 <213> Glycine max

<400> 28814

aactcaagct tcaagaaaaa gatggcctcg caaatcctt atttcctgta ggaattcttc 60
 tataggctct tatgttcaat ggtgagggtt atcattattg gaaaaccga atgcagatct 120
 ttatagaagc catagatcta aagatatggg aagccattga atttgattcc ttattccta 180
 caatggtaga gagaaatgca actatataaa aaaaaactag agaagaaaga agatgatgat 240
 gaaagaagaa agaagaagat tcctcttttag ccccaaatg ctaagtgcga tcaacttggg 300
 cacatgagat tcaattgtcc tgtgttttaa agaagaatgg aataatccga caagatgaat 360
 ttcaaagaga agaaagaaaa gaaaggatat atcacttggg aagataatgt cataaattat 420
 tcaagtgatt cagaga 436

<210> 28815
 <211> 506
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28815

cccccccca cgaccgggaa atagaaaaca cagcacaaaa acacacaaaa aaaaagaaat 60
 gaactgagcc tgaaacggaa cnaaccnaac ngacagagca acccgacacc gatgtacaca 120
 ttttgggctg gaggcnaag aaagggggcg cggcggaaga caggccaaac cactaccca 180
 agaaagaacc atagcacccg ccactcgcga agagaagcca cgaacacgaa caccttaaat 240
 aggacaccaa atcacacaaa gggaatacga ggacaaggcg aagccgaaca aggagacgca 300
 gggaaaagaa cgggacaaca cagagttaaa cacgggccga cacaccctcg agccaacggc 360
 cagtaccga gcagcccaca gtgagagctg cgccatcagg ccaatggcaa ggacacgctc 420

taaacccaag aggacaaaac tagcttggcg cgtagaaacc ggaacaacaa gagacacacg 480
gactcgcacc ccttaggaat gaggan 506

<210> 28816
<211> 253
<212> DNA
<213> Glycine max

<400> 28816

agcccagcca ccatttttcg gtaagaactt atcactacgc ctaaataaac gatgtgcttg 60
agctgtatgt caccttgtag ctatgacgct catctgccaa ccaactcadc atccttgtca 120
tcataacggc aatgggtgtca ctgaggctat tgcacgacaa tagtttatct tgtaagcttt 180
gcagagcacg aattgtatat ctaccgagca tatttatcca cattggcatt agcctgacca 240
cattccagag cat 253

<210> 28817
<211> 427
<212> DNA
<213> Glycine max

<400> 28817

tatcactcca agggtcagct atgaagattc atgggatggt attaaaaacc ttctatgagc 60
acaatcacca aaactcactc tcccaatgaa taatgtcctt cgagaagaag aggaaaagat 120
aagccaagggt ttttggagaa agtgaaatct ggaatatctt atggttttaga gtagtttatg 180
acaattgaaa gtctccctct cacacctagg cttctactat acacacaaca acccttcctc 240
tcataaccca aaagtcaatc catttaagct caaacacact aaaactcact aactcacata 300
aaacacatat aatccagtca acaagcacat taattaatta attttaaaca cttaattaaa 360
tttaatttat cttgttatta aattaaatca cttataccac aattaataat taatctcgac 420
attacat 427

<210> 28818
<211> 427
<212> DNA
<213> Glycine max

<400> 28818

tcttttgaac tatttgaac aaccaaagcc ttttcagttt gtatgtttta agaacattga 60
gctataaatt cttattgaaa tttgaaacat ctaccctttt accaaataaa aaagaataaa 120
attcaattgt atttggggct atgtgttttg ttttgattat tgtttctgga aattacactc 180
attttgaaaa aattgtaacg tacaaaattt atagcttgct ctgaacttgt aacagctact 240
ttggcaccca tgtttcacat gcttggtttt tttgtatttt gtacgcttga gctgtatacc 300
ttgtgagatc aaaataacat gtcactctct acttattctt tctattatta aatattgctt 360
ataattatgg cagcagaaat tcttagtgct gaatcttcaa ttcgcaggag gagtgccttg 420
agagact 427

<210> 28819
<211> 421
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28819

tgagatctcc cttgacaatt gaatggaaga gatgacatgt attntattct atgggtntaa 60
taccttecta gcacagtgtc caagtttttc tctgttgct ggttggtgat cctcattctc 120
actctcactc tcagctaaaa ggcgcctagc agtgccagaa atatcagaga aagagaaaaa 180
agtctgaaaa tgtgatgtgg cttttgttaa ttcttctt ccattatcct ttagactgca 240
aggaagcata tggtagtcc aaccactgg aacacaaatt ctgattatcc cattttgtgt 300
tattgtcagt agcagagaaa taaagcccaa tagcatcaac tctgaaacga agacagaaaa 360
cagaaaagga aaaaaatatt gcgaaattaa tcacatccca attntcataa cagaagtccc 420
t 421

<210> 28820
<211> 422
<212> DNA
<213> Glycine max
<400> 28820

tttgaaggg atgtgaacga gatattgtgg gatatatatt tgggaaggcc aaacaataac 60
gacatcaatc gtctactaca aattagagag acatatgggt tgacaggtat gtttgattct 120
attgattgca tgcacggaa attgaaaaat tgtctagttg cattacaagg tcaatattgt 180

agaagtgatc attgcaaacc catagtaata cttgaaggcg tcccgtaca agacttgtgg 240
 atttgacatg cattattatg gagttgtgga ttcaaatgat gacattaatg tggttaaacca 300
 atcatttgtg tttaatgaca ttttgaagg ttgagctctc tagtgcaatt tacaattaat 360
 gtaaccccat ataatatgag atactatatt gtagatgacg tttatcctga tttggatact 420
 tt 422

<210> 28821
 <211> 347
 <212> DNA
 <213> Glycine max

<400> 28821

taaaacttgt ttgcattctc ttgaattcac gattgtcatc atcaaaaagg gaaagaatgt 60
 ggaagcaatg cctccaagg gtattttgat gatgccaag aatcaagagt taatccaatt 120
 tcaaagattc aagaatcaag tttcaataat ccagattcta gattcaagaa tcaagcttca 180
 agaatcaaga ttcacggatt atccagatca agattcaaga ctccagattt aagaatcaag 240
 agaagactta atcaacatat agccttaaaa agtttttcac aaccttgagt agcacaagat 300
 attttcacca aatcattacc aaagagttta ctctctggta tcaatta 347

<210> 28822
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28822

gcgcgggtct gggagacaaa ggtcaagtgg tctttatatg ctaagatgat gttccgagta 60
 cattggattt ggtacgacca tgccctcctg atttccagct gggaaattgg cgagtggagg 120
 aacgccccgg catttacgca atgagcataa tgtaaacctt tacggttttt aaaagctcta 180
 tagttgggccc taggcttttag agtttttctt tttgttaagg ctttgtgtct tttgtttttg 240
 aatttcta atcgaggacct ttcttcatct gttcctgcgt ctctacccat tctcattcat 300
 ttgcatgttc acttcttttt ttgaaacggc agatccgatg acgagtcctc cgaaggtaact 360
 aatacctgng acccgcttat cgacttcgag caagatatga atcacacgga agatgaagga 420

aatg

424

<210> 28823
<211> 470
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28823

atgaacttga tacttttgan cnttgaaana nctcgganag aancacncca ganagngtna 60
gggaccacca caattttcat tttcaaatgn atgacgagcc gacgagacca acggtgtact 120
aatcgcccaa aaaccacatc ancnttatct aaaacagtat atatttagcc gctcatctta 180
agaggggtttt taaagggagt gtaaaaaacat actatcatgg tgcccatcac acatgagacc 240
actaagagaa cctcacacta tctagaaaaa cgcttcaagt caagattacc tataacataa 300
ctactaaaga tacgattgag agcttgttct actccgaatc cttgaagagg attctcaaga 360
tategctcca ataaaagcgt tcctctccat gcgatgggtc ggttgcaatc aaccacagct 420
cgctgcgggc actgatcgtc atgaaactag gacgacgacg tctctatccg 470

<210> 28824
<211> 361
<212> DNA
<213> Glycine max

<400> 28824

tatatcgaga cgctcgaaaag ttacaaccga gactagtagc aaactcaaac gaccataaca 60
tatacctcgg agagacgatt ggggtcccgcc atatatcgag acgatcgaaa ttttagaccg 120
aagctcgtag cacatacgaa cgacaataac attgcactct gaagaccgaa tgagtcgggt 180
agtatatcga gacgctcgaa atgtaaaact gaagcctgta gcagattcga acgacaataa 240
cagtacgctc gggagtccga acgagtgcac ggatatatcg agacgctcga aatttacaac 300
cgaagctcgt gcgaattcaa ccacaaaaca ttcactcgga tgtcgattga gtccgtatat 360

a 361

<210> 28825
<211> 403
<212> DNA
<213> Glycine max

<400> 28825

ttttgggttc tactacaaat ttacgtcatt ttaaaattcc gaccgcgcca atgtgaccaa 60

ggtttagcga acgtcacaaa aataacatca attttatata aaaaaatatt tttttaacgt 120

ctcattttca aggggttttc aaaggagtg taaaaacatc ctatcatggt acccaaaaaca 180

caagagacca ctaagagaag ctcaaactaa ctaggagaaa ggcatataag tcaagattac 240

ctaaaaaaaa actacgaaag aaaggattga gagcttggtc tccaccgaat tcttgagggtg 300

gattctaagg atctcgcttc gattaaagt ttcctctcca tgcgatgggc tggtgccaag 360

caacgacagc tcgtggtggc cactggtggt catgagtggg gga 403

<210> 28826

<211> 348

<212> DNA

<213> Glycine max

<400> 28826

ctaagcttct actttattgg gattagaact ttttggttct tttatgggaa gtgctcaata 60

tggggcattt gcgcgtttct ggcttgattg ggtggattgg ggttgatggg atggccctac 120

gcctataatg attttgaaca tggggcatgc cacattgtcc cgtctcttgc tattgatgcc 180

taacgcgcgc ccaccagggt cgggaaatgc ctaatggcat tacgtggact tgtaaggaaac 240

aacccatggg gctttggttg acatatttca tttttggaca tgtatcttcc caaaagctaa 300

atattgctcc atattctatg ctagaccaag tttatcaaaa acacaaga 348

<210> 28827

<211> 268

<212> DNA

<213> Glycine max

<400> 28827

gacgactggc ttaacgtatt tactctcgga accttttcgg aacgcagctg agctcggata 60

atatacttgg gactaatatt ccatatttac cgtaacagag acaaaagagt cctaggcgcg 120

atcaccatat tctctcatat acaagccctt atgtatatgg acactacgcg gcagatatag 180

gtaacaagat tcacccctga cacaaagagg ggccatactt cagctcctat ctacatacct 240

tttatctgtg ctaggatgag atgctaaa 268

<210> 28828
 <211> 555
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28828

accgccgcca acacnatagc atngaaaaaa cagtgaacat gcacaggcac gcgaaccgat 60
 gaacaaacca caaaaagaga aanattgaaa ccctgaactg cagacccttg caaaccgnga 120
 actanagaaa acncaagcgn ctaccaaaga gccagcagc gattggcgaa acgagacata 180
 ggaccaccac gccagaaggg ggagaggga cactgaaggc aaaccccgat gccgaatttc 240
 ccagctgcga tacactgaag agaccatgcc accaccccg ttagcaaccg acacaaacac 300
 cggaggaaaa agaggacca cacaataatg gacaaaaccg aggccttaga cgacaggaag 360
 cactcgactg cacaagacag agaggacgga gtacgagaac accacagaaa aggagccgaa 420
 gaacgaaact ggaggagacc gagccaccac agaagacggc agacgacgag gaggtgagaa 480
 accacgacaa gaaggacagt gtgcggaaac cacgaaaaga accacgcagg gagcaaccag 540
 gacaggagac aaaac 555

<210> 28829
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28829

tgccacccaa ctgcgccagg cgagcaaggg tgcttccttc ataagcaaca gccttctgga 60
 ggaatcttct ggagggccca agtgggcctg gttgctattt gcaccccat ttttctaaat 120
 acacccctg cttttttttg gtgattcttt tttcgtaaag ttacggaaac ttatgaattt 180
 cgtaacgata cttgttttct tcctgtaatg tcacggaacc ttgcggatta cataatcatc 240
 ctttttttga cttacggaat gttacgaaac ctactaatt gtgcaacgat gcttcctctt 300
 gatttccggt gtgtcacgga accttacgaa ttgtgcatca atattttctt ttgatttccg 360
 gcacgtcacg aaatttcaca aattgcctaa tgatgggtgt caagcacctc anaatgac 418

<210> 28830
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28830

tcaagaaaaa gatggcctca gcaaattcct tatttccaga ttggaattct atcaatagac 60
 ctccaatctt taatggagag ggttaccact actggaaaac ccgaatgcaa atttttatcg 120
 aggcaataga tttaaataatc tgggaagcca ttgaaatagg gccttatata cccaccacag 180
 tagaaagagt ttcaatagat ggtagttcat caagtgaaag cataaccata gaaaaatcta 240
 gagatagatg gtctgaagag gatagaaaac gagtacaata caacctaaaa gccaaaaaca 300
 taataacatc tgccctagga atggatgaat atttcagagt ttcaaattgc aagagtgcta 360
 aggaaatgtg ggacactctt cgattaacac atgaaggaac tacagatgtt aaaagatcta 420
 ngataaatgc actaac 436

<210> 28831
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28831

tcagaccaca acaacacana atctaggtat ccaaaaccct tcaattttat ggattttcaa 60
 ggtttgagaa gtgaaattga gaatgaggta aatttggagc aaactctcac ctacacaag 120
 tctataacat caatttaaac ttgctcaaac tggatttaca cctaaaattc caccgaatca 180
 aaatttgact cctcaacacc caattttacc ctagaaatgg ctctttgttc acttttgtca 240
 tttgtttttc tctcttgtag agcccaagct ttctcataag tcctaaatga catttcaagc 300
 taggattaac tcactttaac ctccaaatgc cactaaatcc agatttggcc ttccaactct 360
 caaaacctca ctctttttcc actcataaca ccatattctc acttttctaac cctagggttaa 420
 ctctaccctt cttctc 436

<210> 28832
 <211> 400
 <212> DNA
 <213> Glycine max

<400> 28832

cttaccggtt gaagactgaa gaaaatttta cttttgatga atctcgaaga acggctcgaga 60

atcttcggtt aattactcac ggaaacgtta cggaagcgcc tcggcttgga tcatcttcat 120

ggaactaatt ttcctcagca atttcgagag agagagaagt gcctaagggg ttgaaccctt 180

ttctttctca cttctcccc tatttatagc gaaatagggg ttgtatatcc tcaaataata 240

atccccggac aaaattaggg tatgacagtt gccctcttt acttacctct catcgagat 300

aagaggaaag caaagataag acactgattt cgtccgtcct gcccttatcc gtgatgacga 360

ctctcgtcta tactccttct tttgttcttc tgcaccaaac 400

<210> 28833

<211> 386

<212> DNA

<213> Glycine max

<400> 28833

cgcttcacaa tctccacgct tttgatgatg tttacttttg tggatcatgaa acgcacacac 60

acacactttt tcctatgacg atcactcaca tacatactca ttcttcccat ttgtttttga 120

atztatgctt ctcttgcaat tacggtgatt actcatgtga gttcttgatt taatccctat 180

atctctcccc ctttggcatc aacataaagc cggagtgcac aacacgtttg aatcatgcaa 240

atacatctaa gcatgcacac aatatttatg aaatatataa tgcaaatcat gactcaggaa 300

ccatgactct atgaccacga agagatcaaa tatagaatcc gcatagctaa ataacataac 360

taatatttat tcaaacatac catgca 386

<210> 28834

<211> 88

<212> DNA

<213> Glycine max

<400> 28834

gatgggtggg ccaagacgga tatcaacgat gacgatgatt ccaagttgtc taacatgaag 60

attgatgcat ttgttgaagt tcatgaga 88

<210> 28835

<211> 365

<212> DNA
<213> Glycine max

<400> 28835

taacagcttt acccatctac ttgtcgcctt ttttcagaat ccctaaaaaa gcggtgtata 60
agatagtctc tattcaaaga aactttcttt acaaaaacct tgactaatat caagcatctt 120
ataacttcta aggagttatt tactttcaaa aaagcaaaat taattaacag atacgaacct 180
tcaactatac agactattga ggctcttaat cagatagcaa agaatgagga aatcgatcta 240
tccgccaatt ttgctgcaaa aatagctaca aattctaagc agaacctcaa aaaagcaatc 300
atggctcttg aagcatgcaa tgcacacaag taaacttctg actgacaaca tatttatttt 360
aacat 365

<210> 28836
<211> 58
<212> DNA
<213> Glycine max

<400> 28836

accgtcgttg ttctctattg aacacccaca ccgagaggaa cccttcaacc gaagcgga 58

<210> 28837
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28837

tcatgatgaa tcaagattga ttcaaagagt tttgatgatt ataattatga tgacaaaaag 60
ctcaaaagtc aataaactt catgataaca aagatgatga tctcaagaat caaagaatga 120
gttcaagatt gaatcaagta cacttcaagg atcaagagga aagttgaatt caagaatcaa 180
gaatcaagtt tcaagattca agttccaaga atcaagatca agattcaaga ctcaagattc 240
aagaatcaag agaagactca atcaagataa gtattaaaaa gttttttcaa aaactgagta 300
gcacatgaat ttttttcaaa accttttact aaagagtttt tactctctgg taatcgatta 360
ccagattatt gtaatcaatt accagtagca aaatggtttt canaaaaaact ttcaaactga 420
atttacaat 429

<210> 28838
 <211> 361
 <212> DNA
 <213> Glycine max

<400> 28838

gagagatgaa aaagaggaat tttttttgga aaagtcaaag cagataacaa acaatttatt 60
 ctcatTTaaa atatataact ttaatattat tccatttttt gaaattcatt tgtttggtat 120
 ttccttattt taacaattat atacatagtt gaattccaaa agaaaggcat tccttaggtg 180
 cacatttttc tatttatgct tgctgattca agacatgttc atccagatga cattgataaa 240
 attatatcta tagatatacc taaggcaacc aatgatcctg aattatttaa agtagttgct 300
 tgtttatgat tcacggcccc tgtggaactc aaaattacaa atcacctcac atgcaaaagt 360
 g 361

<210> 28839
 <211> 347
 <212> DNA
 <213> Glycine max

<400> 28839

accaagaaaa aaccactttt acatgcccct ttggtgtctt tgcttacaaa aggatatcgt 60
 ttgggttatg taatgtccct gccacctttc agagatgtat gctagccatt ttgttgatct 120
 ggtaaaaaaa tgcacgatg tgttcatgga ttattttctt gtctttggat tttcctttga 180
 ccattgttta tccaacttgg aattggtgtg accacaagat ctctgtctga gggattgaag 240
 tggacaaggc aaaaattgat attattgaga agttgcctcc acttatgaat gtgaaaggca 300
 tccaaagtta tctcatatcat gcccgacttc tatcgagagt tcataaa 347

<210> 28840
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 28840

tgaagaaact gtctacatgc agcagcccc aggtttcgtt tatgacagta accttgtttg 60
 taaactgaac aaggctctct atgggctgaa gcaagcacct tgtgcatggt ttgaaaagct 120

ttcagcaact ctcatctctc ttgggttcaa ggctagcaag tgtgaccctt ccttatttgt 180
 atgtcatgtg gaaacacaac ttatgcgctt gtctatgtgg atgacataat ccgcactaga 240
 aataatagtg ttctaattca gcaacttatt tcatagctaa actctatttt ctctcttaaa 300
 catcttggca agttggacta cttccttggg attgaagtca actataattc cgcaggttct 360
 gtcatgcttt ctcaaaccaa atacatctca gatttgcttg aaagagtaaa tatggaaaaa 420
 gctaaaggaa ttt 433

<210> 28841
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28841

acatcttaaa tntcatgcct attaacgaa gtattgcact tctgactatc taggatcccc 60
 atattttgta tgtaataataa actcatcaca caattataca ttgatatgcc caaaatgagt 120
 tattgctggc aaagtctata cacatgtttg ggattactta tattaacat acgcataata 180
 caaatattgg aagaagcaac tgcaaatgcc aaggcgcata tgtaaatgaa gttgtactac 240
 aattcatttc ctcaaggacc ttagcacttc acttgatga cttgactcta tagccggcca 300
 catatcatgg agctttgcag agatgttatt tatcaagttt gtaacttcat tataactga 360
 ttgttgatgt tctacctgat cattcgctac ctcttctggc atccttgaga tatgtgaatc 420
 aa 422

<210> 28842
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 28842

gctttctcta ccgtaccaca gatattatcg gccagagggc attttaagat ttgcgctttt 60
 tcggcagaaa aatatcatgt cgggctatat aacgaccgat gtcacgtatt tgtgtctcaa 120
 ttcagtcctt gaataatctt tggatattgt ccaataggat atgctcgatc ggcgatcatca 180
 ggtgatgctt gctttttatt ttatacctgc tggatcggtc atctttcctg gccgacatcg 240
 actatcattt tttttatcag tgtcggtgaa taatgttatt tggccgaggt gggctgatgt 300

ttttctagcc gattaaatga taacacgcc gttgtcggcc gaaacacaac tccagttgag 360
ctcgcacgat aaaacatagc cgacctacat tgtcagtttt gacgcgacac 410

<210> 28843
<211> 434
<212> DNA
<213> Glycine max

<400> 28843

actagctgaa gcgattggga aagtgaatgg gttgagatag gatttattga gaaagagaaa 60
aaaaaaagtg agagagaaaag agaaaaatct tgtgagaggg aagggtgcac acaacaacac 120
agtctatata tattggatcat ctcatataaa aaaaaataa taaccactt aaaaagacgg 180
gaagagacaa cgtggcagac acgtgaggtg catgtgcgtt caatcagga cgtgcatgtg 240
ttgtgttact taaaaacact tcaaggttca aggaaacgta cacaagagtt gtaatatatt 300
catattatta atatatcggc acattaattg atattgttaa tttattgtct tgatttattg 360
gcttgattct ctgtactgtt ctgattcatc tcatcaatct tcttattctg taattctata 420
ttatattgtg cggt 434

<210> 28844
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28844

tcaaaactcg ctgactagt gctaggaata ganatcatgt tctgtattta attatagaag 60
actttttgtt tgtacagata gtagcataag atcgtatata gttcgcatac aacggaaccg 120
ttggttttct gtgtatagct ttaactacac gttgttggtta aataacttaag tagaatggta 180
ctatagccat ttgcgtttga gatttacacg tctgaaaca ctgggtgttg ccattttggg 240
tgtgataatg ttcaggatca agttgttact tactatctag tatcttcagt ttgaaaaaat 300
aggtcacaca gagatacttt ctgtaggcta aaaattggga gaatgaacta tctagatatg 360
tgcttattaa aattaggtta ttcataccat tatcttagtg taaatatgtt taactataaa 420
cttgtaatata ata 433

<210> 28845
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 28845

taaagtatgc ccgagtcatt catccctatg agatgttggt taagtattgg cgatcagaat 60
 tgccattcct tggattatag ggttgaacca agtcatgct tttaaaaaa ggttcacaa 120
 gtcaagttga aatatggaag taaccgtctt gcaaattgg ggcaaaagat gaattgagtc 180
 acatcactgc ttcgtctact gccaaacata ttaggatta ttgatgtcct tgttacttcc 240
 agtttcacct tgacaaagat gtcattggacc atgttgaaaa tctaaattga ttcaacccca 300
 tatcttgctg aaaaattcgc aatacttcaa ctgtgcatca ttcgcatgca tccatgcttt 360
 tcattgggtg cattgctcgt tgcattcttt cctttgaaaa taaaataaaa tgaacttaat 420
 cattgttat 429

<210> 28846
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28846

tgctgctacc tgccctccgg cggnggtgcg ataaggcttt tcgtatgtgc caaggggtgcg 60
 tcttccaagg aaggaaaacg cgtggagtcg ccaccaatgt ttattcaagg aaaacgtcag 120
 aaaaacaaaa aatggaaaag gtcaaggggtc tacgtatctt gaaaatgagg gttcgggaat 180
 catttacgca tggggaaagt attagcacc cactgtccca tcacaaggga cgacaacctc 240
 taattgagtg tgcaaatcat gacttcaaaa ttgtatatct tcccttttat atgttttttg 300
 tgtatatctc ctttttatgt tattttttta ttttttgcc tttctacgct ttttactttt 360
 ttgtgggtcca caaagggttt tccctcactt ctacgtattc 400

<210> 28847
 <211> 358
 <212> DNA
 <213> Glycine max

<400> 28847

tcattgttgta ttacacagaat caaagtaacc ttttttctct agattcgtga gaactaccaa 60
 ttgagaagag gaaaagaaga taacctgtca cggaggatga agagtgtaaa ccgaactcag 120
 aagagaacaa tagtgattct gaatcccttc catgtcatta caaccacaca ctttaccac 180
 caccacacac tgccacggtc gcagaagaaa cacacacttg gcgtcttgga cactcgcact 240
 tccacttcgc atcgttgcca cgaccacccc gcatgcgcac cttgccttgg ctttcgcagt 300
 cgcacatcg cacaagtaca ggtgctggga tagagtgatg gaacaactga gatggagt 358

<210> 28848
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 28848

gcctagtctc atcggcgacg actcatcgga tttttgggtg ggtttggagg tccaaaatca 60
 catctgagtt tcaatttttg tatcccttgg ctgatgctct cctcgccgat ttgacggcg 120
 acatggtgga agatcgctgt gtttaaccgt agagggtggtg gcagatccag acgctgattc 180
 gaataagaaa acgttattca tggacaaaga tgatcaagaa gatgaacgtg taccataaa 240
 tgtgattctt ttttatttgt agaagctgaa tattattgcc aaatgaatgt ggaagctgat 300
 atgcgtttca atttatatgc tttatattat tgaaacatta agaaactgct ttatatgcgg 360
 tagtatatat atatctatat atacatatat atatatatat atagatatat at 412

<210> 28849
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28849

tntaaaaatc tattatggta tatatatata tatatatata tatatatata tatatatata 60
 tatatatata tatatatatt ttcgtataag agtttttaga cataaagtat ttgaccccc 120
 tttcaaatct gttcaccta agaattcatt caacacttag ttctcctaaa atgttctctg 180
 gtaatcgatc accacaatgt gtaatcgatt ataacaaggc acactaagtg taatcgatta 240
 caaaaaaatg taatcaatta caacacgtcc ctgatgctta taaattcaaa ttaagaatt 300

cacgaaactg caacttcgtc tttctcgcga aacccttatt cccaaatttt ctttctacca 360
taactaactc atttcttata caaatcacgt cccacaaagc ccaaaattca tcttttttca 420
ttcn 424

<210> 28850
<211> 437
<212> DNA
<213> Glycine max

<400> 28850

taccattctt gtggcacgct atcgaccgta ccgagtcttg ggtgtcactg tttatcatcg 60
cgtgaccgtg cgtttacttc gtgtactggc tggcatgact ccgtcttcga cgagacactt 120
gttcgcgatg cagcgatagg aaacagtgtc gagttgaaca tgagtaagag caaagttgac 180
tgctttacga ctgtgcgtta ttctgggact atgcatatcg ctgtatactc accaaggaca 240
ttcaccattt atagtaggta tttatcgata atggatgatg aatttgtacc acgcatctcc 300
gatgggatga gtcttgcttg tctactcta gtgtggaagc aaacctgtg gcttcataca 360
cgctctcttt ggattacaga ttgcatact tgtgctgaat atcaactgct agctctagat 420
agtagtgatg tttatcg 437

<210> 28851
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28851

tgagatgagg aagtgttgaa tggtgaaact tctgctttt attgntttcc acagagtggg 60
acctggagat atgtcgcggg ggtcatgaga ccttggggac gtcaggtggg gtgctattgc 120
ccaaaaccaa gcttgaccaa tcccgaacca acccgggcat agtcggtcag tgagaacctg 180
tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaca aagaccacaa 240
agcaaggagg cttgtggtgg ctggccagct ctggattttg tgtgatatgt ggagtatggc 300
ctctggtaat cgattaccaa ggggtgggtaa tcgattacaa ggcttaaaaa tgaagacagg 360
aggctaagat ggtctctggt aatcgattac caaggggtgt aatcgattac caggctagaa 420
aacgaagtca g 431

<210> 28852
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28852

taagctataa gaacggactg tcacttgcat agaacttccg gtttgtntat tagccaaaca 60
 ttatttggca aaaggtacgc aagtgaaaaa taaaaacatt agtgcaacaa taactaaaca 120
 aatatgtatt cctgtatcaa tttctaatat atagtataa ataccatagc aacatataat 180
 ttgattcaat gtttcataca tatagattgc aaacttgggg gaaattgtgt aaggaatatg 240
 ctaaactctgc aacttaagaa caaaagcata taatattggt tatggaaaag acatagggaa 300
 gtccctaacct gattatagat gaggcgttcc agacataagt caaataattg taccatattt 360
 tatcaaggca tttacattca caagttgtga gttacacaaa aggatagtga gtatcacaaa 420
 gtccctta 427

<210> 28853
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28853

tccatcatag ccgcaattga tgctttcctt gcatatcacc ttagcattga gagcccggng 60
 gtagctatct tggcgggctt attttacaca tttgactgaa gatgcgaaaa gagtagcgca 120
 cggatcatct gttgtttacc cgctctatcc ttgcatatca cttaaagttc gtagaccacg 180
 tcttttccgg tttttctgat gttttcctca aataaacggt ggtggcgact ccacgcgtat 240
 tcctttcttg gaagacgcat cccgcgagtc acgcgtcgcc ctctgccga agggtaagtt 300
 gcgacacacg ccctcacctt cagaggacta cgtgtcctcg ccatcagagg gctggacgcc 360
 ctcaccttta gaggactaca cgctctcgcc atcagagagc tgcacgccct caccttcata 420
 ggattacacg tctctg 436

<210> 28854
 <211> 413

<212> DNA
<213> Glycine max

<400> 28854

tattaaaaat cacgtatfff tatatgttgc atttcatatt attgaacttt ttcaataata 60
tttgtgatta taattaattc taaagattgc attagaaaaa aagtgtttta caaaaactat 120
tataccatfff taattaatca tgactttggc gtaagatatt taatgatttt attgactact 180
aatttttgac gaaggatttg attgagtttt tcaaccagtt tttttttttt tttcgatttt 240
gagatcttga ttcaggatta aatttaattc tacttaaaact aattatgtaa taaaaataaa 300
aaatgagtag tttttttttt ttgttttaat tcttctgttg aaaaaataaa acaggactaa 360
gaattgtfff aatacagtga taagaagtgt cctcaactat aaatggagga aaa 413

<210> 28855
<211> 409
<212> DNA
<213> Glycine max

<400> 28855

tcaacattca atttcgagcg tctcgatata ttacgagact caatcttaca tcagagaaaa 60
acgttattgt cgtttgaatt tgctcagagc ttcaacattc aatttcgagc atctcgatat 120
gttacgggac tcaatcagac atccgagaaa aaagttattg tcgtttgaat tagctcagaa 180
gttcaacatt caatttcgag cgtctcgata tgttacggga ctcaatcata cattcgagaa 240
aaaagttatt gtcgtttgaa tttgctcaga ggttcaacat tcaatttcga gcgtctcgat 300
atgttacggg gactaatcag acatccgagt aaaaagttat tgcgtttgga atttgcctaa 360
agattcaaca ttcaatttcg agcgtctcga tatgttacgg gactccatc 409

<210> 28856
<211> 389
<212> DNA
<213> Glycine max

<400> 28856

tgtaatcgat tacacacata cttgaatcga ttaccagatt attttttcag aaaacattct 60
caacagtcac atctttttgt gtggttcttg aatggctatc ataggcctat atatatgtga 120
cttgagacac gaatttgaca agagtttttc agagcaaaaa ggtcttatac tcttataaag 180

agaaatcgtt ttatcctctt acaaattcct tggccaaatt acttgtgatt caataaggaa 240
 ttatttgagc gctcaaattg atcaatctat ctctttcaag agagatttct tcttttcttc 300
 ttcttcattt tgaaaaggga ttaagagacc gagggctctt tgttgtgaaa taattctaaa 360
 cacacaggaa tgcgtgtcct tgtgtgttt 389

<210> 28857
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 28857

tgagaagctc tatgcgaagt gaaacaattg attaggattt tcagattata gaaagatatg 60
 aatgagttaa ttgattaccc aattagctaa tcgattaaaa ttgttaatac tataaatacc 120
 tttgcttatt ctactacaa gaaaaaatga ttttaacgag gggtattttt ggccttaagg 180
 aggggtttaaa cccccgtaaa gtatgttacc tattgttggt gttctcattg gcaaaacatc 240
 cacgataaat ggtttacc aa tggcttttgt gaacccttta aaacacaaga attacttgat 300
 gttttgaaac ccctggtaat taccaagggt ttattaaccc ctattatcac cacaatcatt 360
 gctggacgat ttaaaaccct tggttcttat t 391

<210> 28858
 <211> 224
 <212> DNA
 <213> Glycine max

<400> 28858

gaccacagac aatggcttat agctaattcg agcgctaatt ctataaaaac taatgaatgt 60
 ttatgaaata ttttggtgga ttctgaacaa agcttgcttc tactcagctt ctgactttta 120
 ccacacgtca tcgaaattgg agcactctct ttttaccxaa gttgaaacat tgacttttat 180
 gagttctaag gcaaggactg aatcctcagc atagaaagtc tgtg 224

<210> 28859
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 28859

tctagccaaa tggacttacc ttgaattaat ttctttgatt gccctttaga gccttggttc 60
 cctttccttg ttttgaagct cactacaagc ctttaagtga aaaccatgat atttccatat 120
 ccttaaggaa ttttggagct ttggaattgt tttgggaata agtgtggggg gtttttgttt 180
 cattggacaa cttgttttgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240
 acattgtata ttggttaaat gttggacatg ctgaatgaaa tgttgtttct cacaggctaa 300
 agagtaaaaa aaaaaaaaaa aaaaaaatcg aaaaaaaaaa ttcgaaaaaa gaaaaagaca 360
 agcattaaag ttgagtgaat aagatcttaa atggcacaag actgatgaaa ctcttggttc 420

<210> 28860
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 28860
 tgatcaacac ttgcacagtg gtcgatgatg catgggagat cctgaaaatc actcatgacg 60
 gatcctccca agttgaagat gtccagattg caactgttgg ctacttaact cgggattctg 120
 atgatgatcg aggaagaatg tattcatgac ttccacatga acattcttga aattgccaat 180
 gcttgcactg tcttgggaga gaagatgaca gatgaatagc tgggtgagaaa gatcctcata 240
 tccttgcccta atagatttga catgacagtc actacactag aggatgcccc cgacatttgc 300
 cacatgagag tagatgaact cattgattct cttcagacct ttgagctagg actctcggat 360
 agggctg 367

<210> 28861
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28861

tcttacgtag cctctcttgg tgctcagaat atcccaataa cntatccctc ttattactag 60
 ctattgtgaa ttctttagtt cctgaatgta caaccttaaa attgttgctc gttccctct 120
 ttgctaaaac atcaagagct gtaactacgt cactaatcaa aggtctggta tcagcttcct 180
 tctgaatata cattgctgca actgctatgg cttggtgtag accctatgtt gggtagttcc 240

ctttcatcaa tggatcagcc attgatgaaa atttccttct gtctctgaat acgggttggtg 300
 ccttataaaa aaaaacatta tgaatgtcaa ttgctgaaca tttgtgcata ttattggtct 360
 tagct 365

<210> 28862
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28862

tatttttagta agtttcaagt ttgtgggttaa gcttattatt tttgatataa gttctaattct 60
 gatatgctta ttaaataaggc gcctaattaa actattttacc caaatgcacc atacatgtaa 120
 ttgcacactg atattatttg cctatatttg atgttttagtg ttttcttaaa tatttttggtt 180
 ccttggtgac ctttaaacad tgatatgcag agtaaaaatt gcatttttgt ttaatgtttc 240
 aacaaaactc tgtttttttt ggggggtggg tgggggttg taaaatatat tgaagctcat 300
 ttttaacatg gttccttacc attgaaccct gttaaacaag ctaagtgtag atgttgacaa 360
 tttgttntga ttatatcang aaggctcatga ggaagctcac gaagagttgc ctaaaaaagt 420
 taaaac 426

<210> 28863
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28863

aacctcattg tctctcacag tcttttagatt gggattcttc caatccttgn gtccggactc 60
 tcagccactt atgatagccg ccgatgatcc cattactgct tcccctaagc tctctgtcct 120
 ttcttcacgc cgcattccat gccttgcgaa ctcttggag taccctcgcg ttgtggtcac 180
 tgaaaccccg tgcgatgaaa ggcgtgatgc tttcgtctga tggcactcct ctcatgggac 240
 atccttcgca tgaagataga atcctgattc ttccttcctt ctacgaggg aaccaattaa 300
 cagacgcccc tccatgctag ccaagagttg gtcccaattc gcctttcctt tttcgacgca 360
 tgagcgggtga ccttgtaacg gatagacgtg cctaccttct tggag 405

<210> 28864
 <211> 112
 <212> DNA
 <213> Glycine max

<223> unsure at all n. locations
 <400> 28864

tcanaaggag ccataccaat actggcttgg tagctattgt tgtagtaaa ctcaatcaat 60
 ggcaaacaat ccatccagct accttgttgc tctataatac acgcccgaag ta 112

<210> 28865
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 28865

cttctactta tgtggcaggg cgggtttcct tcaactttctc tctttcacgc gagctctttt 60
 cactgtcctt ccttctcgcg gtgcttcttt tcatgtccgc ttgagtgggc ttatagccta 120
 aaccatattt cccacgattt ccttgcgttt ttatcaagct agttatgccg ccattgtctc 180
 tgcctaaacc catcccgggt tcataaccgt tccccaacat aactcggggc atcattaccg 240
 ccgcatcgga cagacaaagt tgcccaaaga cggagtccac ggaggaaatg ctaaccacct 300
 caaaagactg gaaagcggct tctaacgatt cttctgcggc ttccacataa tgcattggagg 360
 atgggcagct taccaagata tcttcctcgc ctgatacgat gaccaagtgc acctccacta 420
 cgaatttc 428

<210> 28866
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 28866

tcttacgtag cctctcttgg cgctcagaat atcccattta cttgtgctg ttattctaac 60
 tatattgaat gctgtagtgc ccgattgtac atccgtaaaa ttgttgctcg atgccctgtt 120
 tgctaaaaca tcaagagccg taactacgtc actgatgaaa ggcttggtat gaactaactc 180
 ctgaatactc attgctgctt ctgctatggc ttggcgaata acctttgctg agtatctgcc 240
 ttctcatcaa cggatcaacc tttgatgaaa at 272

<210> 28867
 <211> 483
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28867

aacgcgcatt tgatgcgtcg atgnacgncc gncatagaat acacacgcac gcaaggagcc 60
 atgccaacac aggacacgna ccgatttctt ttagaaaacc caaccgaggg ccagcaatac 120
 atcctagcta ccaagggcca ccaaacacac gcccgaagta gatgcgcacg aggagaagag 180
 ccgtaacgga cgaggcagca gatccatgga aataagcaga ccttcgccac atagaagacc 240
 cctacgaatc acggtaagct gaccacaaag gcgcatgcgc accagaacga atgccctgta 300
 caagactaaa taaggatcac tgccacgaca ctactaacac gatatacgac tacacaaacc 360
 ttaacatgcc ataccttcaa tgaaaagaag aacaaatgag cacaaatgga gagtcaaaca 420
 gccatgaccc acaccgcaac atgcccacga ctcagcaagg atgaacacaa gacgcacacc 480
 gcn 483

<210> 28868
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 28868

tgtactagtc atatatatgt tacaaaacaa cgtttggtat tttgaatcga ttattgcaga 60
 tacagaaata cttaaacaaa cctgccaaatt aggggttttg cggctttttg caaattccgc 120
 ccatgtttct ggatcaaggc catacttgac tgtaggatca gatatttgct gaccttcatt 180
 gtcagcaaag acaaatTTTT aagtcaatga agacttaaat tgccctccatc ttgctgcaac 240
 tgttgacatc acctTTTTTT ttgcattttc accttcaggg atatcaaatt tgcgctacac 300
 aacaaaagga gttatgtaac agtatgtaaa tgaatccttt aaaagtaact taacaacaaa 360
 atcatgaata catgtgtgaa ttacttacca aaatatcttt ccatattaag ctctttagat 420
 c 421

<210> 28869

<211> 419
 <212> DNA
 <213> Glycine max

<400> 28869

tccgaaagtg tatagtaaaa ctatgaagac attcttattt gcattgcaat atttttcttg 60
 gtttaatttt tatattcacg ggataataac aagaaacata tagaagggtt aaaataattt 120
 tctgaacgta aactgagcta ggcagctcta cacggctgtt tctctacttg ctgctcgtc 180
 taagcttctg aggagtgaag caatattttg acatagtaat atgaatatga catggttact 240
 ttccaaagaa agtggggccac aagggacaat ggttcaaaga atatcacaag atcctgctat 300
 gttaatacaa attcatttca atcattaaca cccggacaga attactagaa acagtctaca 360
 ttgtaactga aaaaagaaaa aaccactgtt gcggagtcaa caaaatatgg agtctcaat 419

<210> 28870
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28870

tatatgcatg tncgtttttg ttttaagccg caccaatttt gtatatgaac atgcnatgtn 60
 ggagagccat acggcacaag gcattttcag ttgcgtatat atatcatgcy atgtgttatt 120
 tcgatatctt gcgttctagc attctggcct taaaatgcaa aaaaattact agtgctttca 180
 taattaaatt aatagaagat ttttaaataa attacaataa agttattcgc taaaattagg 240
 tcttaattcc atgtatggcg ataggtcatt atagtgtgta cttacatgcy ccttgattat 300
 tatattaact tgatcatata tgaatgggta tggataagag tagaatgaaa cgaataacac 360
 gttttcttat tactctaaact ctaacttgac ttttctcaat 400

<210> 28871
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 28871

aactataaaa ctgagcttgt tgctggcgga ttctgtaat tacgtaatgt tggtcggact 60
 ctggtacatt atgaagggat tcttactcgc tattggtgct tcttggtctt atgagctgct 120

gaagattatt caactaaatt aagtgccttat taaataagcg tttgtataag atatgtttct 180
atgattgaag atgaaatata gttcaattgt tttcatagct gaaaactgta tttacaaaag 240
gagtctattg aaataagctg aaaacatctt atggatatat cgcacatgat ttttattagg 300
tctcccaaac aagtggtcac atcataagat aagtcccaat aagctgtaaa taacttattt 360
gaagaacccc ttattggatt tttgtgttac tgtatttaag aatttggctt tgcgcgagga 420
tgtgc 425

<210> 28872
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28872

gagttgccat cctcattnta caggccaacc agcaatccta tgatgcctta actctttaat 60
ggtgaattag cacaataaag gacttcagca tactaaatgc tagtagtacc agttgcaaca 120
atcacaaatt gcataaacat atatgaaaaa actcaagtac attcttacac ctcaaaaagg 180
caagaaggaa aagaacgcat atcaaagaaa tcttaagtta tggtaaattg cttagagaat 240
atcctttata atgcatgaaa ctaaaaccag taattacagg aagagaaaag aacatactga 300
tccataccac agagcatgat agacagttcc acaagaacct gcaatttaga ataggaaaca 360
agttacaagg cataaaatgc ataacaacca ctgctaaca gatatttggg tttaaaagca 420
taggtttagt aaattat 437

<210> 28873
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28873

agaatcggac ctcaagtgtga aaagttatga ccatcncctt ttctcgagag cgttcgttga 60
tcaatgtcga gcatctcgac atgttatgcg ctcaaactcg acatccgtgt gaagagggtat 120
gaccatttga gtttctcgag agcttccatg gatcaatttc gagcatatgg tcctattatg 180
tgcccgaatc tgaccttcgt gtgagaagtt atgaccattt gaattttctca agagcttgcg 240

ctgtttaatt tcgagcgtct caatatattg taagcgtgaa tcggagctca gtgtgaaaag 300
 ttatgaccat tagaatttct ccaaagctta cttggttcaa tttcgagcat ctagacatat 360
 tatgtgcacg aatctgtcct tcgagtgcac agttatgacc atttgaattt atcgagagct 420
 tacgctg 427

<210> 28874
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28874

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 agcccctact ttcgaggggc agctcccacc ttatgacgac tatcccgggc aagacgatga 120
 ggaatgagat acccatctcg gtcccctgct ccacctcaaa gatctgtccc cccatgaact 180
 accccaacca aacatagtcc gccatatccc gacttcaccc acactcgtaa aagaatctgt 240
 tcccttcgtg gaagataaag gaaagattga ggtgcttgaa gagagggtga gagcagtcga 300
 gggcctcggc aattacccat tctcgatct agcggactta tgtctcgtac ccaatatcgt 360
 cattcctccc aagttcaaag taccagactn tgataagtac aaagggatga catgttcgaa 420
 atggcatctt 430

<210> 28875
 <211> 428
 <212> DNA
 <213> Glycine max

<400> 28875

atttcacgtg acaacaaaat tgacatgtcc ggttgacta aagtaggtga attgattgaa 60
 aaatttgaat cataggcaga gttgtgtgaa cttatacatt tgcattctgg taagaccact 120
 acagtgagat ggaacaacaa gccaaaaaga agaattgatc gaaacaagga aagaattcgt 180
 tagttggtag gaatgccac ctctttgatg acaagtccga tggtaacgac attgccaaat 240
 ctttcaacta acactatgtc taccatagtg cctactggta ctacaactta tgaaataccc 300
 acaattatga ctactttggt cctctgacaa caactagatt tgggaatata tgatataatg 360

tatcaactat cttgacaact aattgaaata gtcataacta gtccgtggat aaataggtaa 420
ttaaataat 428

<210> 28876
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28876

gtgtagctcg acgaagtgc cggataggta ggttgctagc cctgcaagaa gaatactatg 60
aaatttgtgg attttgaaaa gaaagcatga aatcgggaca tggatgaacaa taactggggtt 120
ttgaacctca gcataaggct ttttattaca aaggagaagg aataaaaaaaaa tagcaaaaaa 180
tggaggagcc tacacgtatg tgcctgggtca ttcttttatt atatgacata agattatcca 240
gttgggagac cttcttgtgt gatttggaaac ttaagtttca accttcgccc ttcgacaacc 300
atcaagttat tcaaatttgg agtttgcct ttttagtatt ttaaattaaa atttgatttc 360
ttttagttcc tcanattcaa taaaagttat gttagttttt cttgtaataa aaaaactgtt 420
acaaaatttg 430

<210> 28877
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28877

gctntgcgga tttggtcttc gccagtgaag ggatcgttgt ttgtccgaaa agagttatat 60
ttgatcatcc tactaggacg actgagaaaa ctggggcaaa tgaagagggt gagaaagagg 120
gagaaaccca tgctatgact gccattccta tacggccaag tttcccaacca aaccaacaa 180
tgtcattact cagtcaataa caaacctcct cttaccac caccagttta tccacaaagg 240
tcatccctaa atcaaccaca aagcctgtct accgcacttc caatgacgaa gaccaccttt 300
agcacaaacc aaaaaaacac caacaaaaag gaattttgca gcaaaaagcc tgtagggttc 360
acccanatt ccgttgtcat atgctaaact tgatcccata tccactcaat aattcaatg 419

<210> 28878

<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28878

tgcttgtgga gcttctatgg aggctggatc tttttgcttt aatgaggtcc tttaatggtg 60
gttttctacc atggagatgc agtggaagac aaaggagaag aggtgaaagg aagcgccatc 120
cactaaggaa taagccatgg aagaaggagc ttcaccacca agataagcct tggataagaa 180
gcttggaag atgcttcaat ggaggaaaag aaagagggag agaaagagag gggggagcac 240
gaaattgaag gaataaaaga gagagagaag tggaactttg aagtatgtct cacaagactc 300
tcattcatca aagttacaac aagtgttaca catgcttcta tntatagact angtagcttc 360
cttgagaagc tttcttaaga aaacttcctt gagaagcttc tttgagaaaa cttccttgag 420

<210> 28879
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28879

tatgattaaa tacgctaacc tcagcaaata ttgtcttttc ttaggtatgt tctttccttt 60
ccgtttttca tattgatgat gaataaacat gaatttgata aattgttctt gtttgtgttt 120
gatggagccc tgcaacactc taatggtggt gtagatttac ttatgcatag aaattaggaa 180
aagaatagca ttggtcatga aaacatatct ataacgttta gaaattagaa tttgggtcca 240
aaacaaaatt gaggactaga agactaataa ttatgccggt ttgttatcga tccttttggt 300
tggaaaaagt catggctaataa aaaggaatca catggtgac tanatcaact acagatcata 360
tatatcatgt atcanaatca tgaaaaatat atgcactgaa tactctcggt ggctgcagtt 420
tacaatc 427

<210> 28880
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28880

tcaagcttca tgagagagtc atatatcaaa tngagagggt taatttttagc tatgctaaac 60
tagccaacaa agggagaaaag aaggcagact tcgaaccccg atattgggtt tgggtgcaca 120
tgacaaatga aaggtttccg gaacaaagga aatcaaagct tctaccatgg ggagatggac 180
catttcaagt gcttgaaaga attaatgaca atgcttaca agttgagctg cccggtgagt 240
ataatgttag ttccaccttc aatgtctctg atttatctct ttttgatgca gatggagaat 300
ccgatttgag gacatatcct tctcaagatg gagagaatga tgaggacatg accaagagcc 360
atggcaagga tccacttgaa ggacttggag gacctatga 399

<210> 28881
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28881

taggcctaatt cttaactctt ttttaagagcc atcacttttt tatttagatt tggaccatac 60
catgttntaa ggagttgagt agagtgtgag cggttaaact cttcctccat tctccccctt 120
agttataact aaatacataa aagattgaaa agaaatctta tatgggttgt tagaagcttg 180
caaagtatct tgttgaagta cgatgaaaac attaaatctc aacagcattt cgtaatttg 240
aagacattca ggattgtctt aatattctct ttttcaccgc agaaactaaa ttttattacg 300
ttgaagagtg ccagcagtag ccctgcattg ttacggcatt tcaatatatt caatttgtgc 360
aacaaaacat aatgtcattg gtaatatcca tagtattcaa caataaatt tttaaag 417

<210> 28882
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28882

nttactagca tcaacagtat ccttagatta ttatnctca ttagaaactc tcgctgctct 60
tgtaaaaata aatccttcta agcttcatgg aagtgcaaaa atggttggct gtggttcagt 120
aaatagctat ctctgtccc tggcacaagg gtggggaagc aaggaggagg gcatgggttt 180
gtactcttgt attatggcaa atgagaaagt ccaggatgaa gcaactgtgt tgtttccttc 240

tgatgctgag aatagtagtg accaatccaa ttactgcata ggttctactc tttattttga 300
 attgcatgga cccattgctc anagcaagga accaattgta gatacagttt cctcctgttt 360
 gagagttata cacataccgg atatgcattt a 391

<210> 28883
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28883

taagaacaga attgcctaaa tcatttccaa atatgtatgt gattacgaag catttcaaga 60
 atcaagccta ggctattgtg caagcaatca atggggcaaa acacaccaaa atattatgat 120
 aatggatggc tcaaattctc acaaaggtaa acttattact ttcaaattga gctttcaaaa 180
 ctatcatgac atgtagagga aaaacaagga tttcaaata caaaatgtca agagactttt 240
 attttcagaa caattatcca tttcttgaac atatcctata attcaaagaa aaatatgcaa 300
 agttgtacat gcaaacagaa ttgacctaga atattaaact ataaacccaa caaaactaac 360
 aaatttaaca caagcaaac taacaaaact agcaaaacca aaaccaaaga acactccnc 420
 cccccccata c 431

<210> 28884
 <211> 430
 <212> DNA
 <213> Glycine max
 <400> 28884

acgacgcgtg aataaggacg gttctactaa atttggtcgt aacaaatgac cggtggcatt 60
 ttttgtaaata aacagtacac gaaccattca atacgaagac gggtattttc cgaaccggcg 120
 tcatagattg ggcaagttta aaggtagccc gtgagccaca gccactgaag aagttaagct 180
 tcaaatatgt gaagcttgct ctogatctca tctctcccat tcacctttca ctggtgcact 240
 ctataactcc acgctcctat caatgctcct ctacggcatg ttcttgaatg cccccattgg 300
 gaaaagaggt tctagtgtg ggggcctagg gttagggttt gtgagagatg ttggatgctc 360
 catgcattga tgagtcttat cgcaagctgg tggaagccat tcgagcacag tgacgacgcc 420

gttaatgccg

430

<210> 28885
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28885

attaacctag tgtataagac aaggctttgt tcttgttgc gcaatgttgc atgctcgtaa 60
tattaagcac gcttcattcg tccatccagt agtagggaat tatgcttctc agaaagaatt 120
gacgcataaa gatagccctg tctacaacta tatagtatat gtattgatcc atatcgtaat 180
gaggggaccc atctctatat ataacagccg tggacatata tgttcttgac aagactagat 240
gagaatagta cgtatacgcg ggcggagctg gtaccatcag gtatcgaagc gaaaggccaa 300
gtatgattct ctatcaagga cccagaggat atcactgatg cctcttctaa acgcntgaca 360
tgcgataatg gatctgtaat atctcatacc gactgatgaa cata 404

<210> 28886
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28886

ntntggctaa gtggctatctt acaatcaaaa catggccttc atcattctca gattcatgca 60
ttcattccat aaattagaga ttcattgcaa agtcattacc caatgtcagt cgtttctttc 120
acaattaaga tcacactctc accgggttac gattaacgca ttccttcaca atcaatatga 180
caaaccgact aacattttca gtcataatcc taatttcttg ttctttctct tttaatgact 240
gcatgctttt tcaagacaaa agatctatgc attccacttc actcaattca tacaagtgct 300
tcgttcaatt caatcaaaaa cattgaatat cacatcaaaa gtcaaaccac tgaataacat 360
tcaatcatgc ttttcacaag ctacaaacaa ctataaacat act 403

<210> 28887
<211> 432
<212> DNA
<213> Glycine max

<400> 28887

tgtttcactc acctcttgaa acacatagtc attcatgtgt tcttcgctta ttatttatct 60
tctccattta ttgggtcaata agattttctt tgtttcttct ttcttctcaa acttatatga 120
tctactaatt ctctatttct gagagagttt gtctataaag ttctaggaga agagaaattt 180
ttacccttat acaatacaaa agtatacaat ttaagattag atcacatgag atgtattctc 240
aatagatttg gctaataaaa tctttcttta tctttttctt ctttattatc tagattttatc 300
taatttgaac ctacaccta attttatttt ctgtcaagat atatattaag ataaaacatc 360
acaagattta aatcattcta gaatatcaca aattogaata taacacacat cttatccaaa 420
ctagatatac at 432

<210> 28888

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28888

tcttcttggt tctctcccca tttgaaacca acatttttct tgagcacttc attgagaggt 60
gctgccaatg tgctaaaatc cttcacaaat cgtctataaa aacttgctaa gccatgtgtc 120
gcaacctacc cttcggcggg agggcgatgc gtgactcgcg ggatgcgtgt tccacgaaag 180
gaatacgcg cggagtcgcca ctaatgttta tttgaggaaa acgtcgga aaaccggaaaa 240
gaagcgatct acgaactttt aagtgaagg ctcgggagtt gtatttacgc gtggggaagg 300
tatttagcacc ccacacgtcc gtcacaaggg acggcagcct ttaatcgaat gtgcaaacat 360
gactttgatt tttacgttcc cttttatgtc cttatatact ttataccctn tntatanttt 420
tttct 425

<210> 28889

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28889

actcagctgt cattggcgag caaataaaat ntttttcatg atagcatgga tagtattaag 60

aaagttgcaa ttgattcaga cagatgttgt agggcctcaa agaacacctt cattgaaagg 120
 caatttgat tacactatat ttattgatga ctttttcttt aagttcaaatt caaaggtggc 180
 tgaaattttt tggatgttca aagtcaagta gagaatgaaa gtggtctcaa aattcaaatt 240
 ttgaggtctg acaatggcat caagtacaca tctgcaaaat ttaatcaatt ttgggaggat 300
 tctgacatcc aacatcaact tactaatcct tataccccac aacaagatgg ggtagtgag 360
 aggagaaata aatatatctt ggagatgatg agatgcatgt tgtatg 406

<210> 28890
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 28890

ttttatttca aaagattctc atgaaacttg tgacattggt catttagctt aacacaaacg 60
 aaagccctat tctcttaatt cgagaagaag ccctaaaatt tttgagttga tgcctatgga 120
 tatttgggga ccatttttta aatcatcaat tctggtgacat agatatattg taactatact 180
 tgatgatgat agtacatata ctcgggcggc tttattaaaa tcaaaaagtg aagtgaaaac 240
 acatgttcaa aactttatta atctgatcga aaatcaatcc gaagcaaaaa ttaaattgcat 300
 tcgattcgat aa 312

<210> 28891
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 28891

tgctcttctc ctctgcaatg cctccacct tgtttactct ttcttttate tctatctgta 60
 aatccttgta gcatctgaac aattcatcac aatccaacct ggtgcacaac aacttggcca 120
 acacaccacc aactttggaa gacagttgac agttcaacct tacgacctca acaaaggcga 180
 tgggtggtgtt agccacctta tgacactcca ctctccaaac agtgtgagca gtaaccctcc 240
 atttggcgat ctctgactcc atggacacca ccttgtgcaa accctcttgg tgctactgtc 300
 cgttctctc tagaatttcc aaacttcttt ggagaaagac tttggtagag tccgtagcat 360
 tttgtaccct aaccaaccga atcatatctt ttgtcaaagg ttgacacaaa gccatagt 418

<210> 28892
 <211> 425
 <212> DNA
 <213> Glycine max

<400> 28892

tgtatataat tatcatttgt tttggcaa at aacttctttg tctgaacatt cttaacatta 60
 gatagtgaat atatatcgac aagtgaatag aatgaaatct tattttaatt tgttatttaa 120
 ttttaccttt ttcaataatt aaagcttata atcttctaac tcccgttttg tctttaaaat 180
 gtatctttta aatttatgag ttttaataacc atttttagtat ataaaaattt acatgggtcaa 240
 ttatcaatca attaaaagtc ataaaatcat tcttattata atttttaaaa taattatatt 300
 ataaaaataa taaatttatc atatgagatg ctttgtcatt gatttgtgat tgaataatta 360
 ggtgtgttat atttattcta acttatatat ggaatgctta tgcaagtata tttcatttaa 420
 aaatg 425

<210> 28893
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28893

tggtgactct ntgagcatat ttttatcgta gaattttttg caatttattg gttctttatt 60
 tgcacagaaa ctgcgtaatt aagctagaca atgaaagaca cgtgggaatg ggagatgtag 120
 tgatgcgatg cctgcacgac tagcttgcaa acttgaagct gaatcaccat cacgcacaa 180
 aagttgaatc catcagccac accaagggtcc ttttccatag agtagaaata aatgaaatga 240
 aagtgaatta agatgagata gtcttaaatt aaagtaaaat gtagaagtgt aaatttcatt 300
 gtagtttatt atttatttct ctctntttat gtttttttca actcaaaca acgaacacta 360
 aatcagtaaa aatattaata tatatatatn tttttataa ttttaattaat ata 413

<210> 28894
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 28894

ntagaatggt aaactcatct tgaatgagag gatgtttttg tgcgtttttc aaaagcttta 60
ggccctttttt ttttttaatt ttatcacgga tgaaaacctg ngcatatata tatatatata 120
tatatatata tatatatata tatatatata tatatatata ttttcagge ttccctttta 180
cgcttttgat accgtatacc tcgttttaaaa taaaataaaa tactgtgcat ctttcttttc 240
tattgaacaa aacacaatag aagcaagtca gaagcactcg aatgactctc ataccaaatg 300
taaattaaat aggtattgat ctacacatac acatcaattt aaataacata tttagatcac 360
acaacggaaa ttaaataatta cgagcgtacc tccagccatt gtacatcgaa cgcgaaan 417

<210> 28895

<211> 431

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28895

gtgaccccttg tttcactaat atcaaaatct ggctanccat ttaagtgtc ataaattcca 60
taagggtaga agcctgatga accacggagc attatgaatc tgaaattgac catccacaaa 120
tgttaatcct actgctatca gtaaaaaaag ctactagtgc tttaaatatt attctttgag 180
caataatgga actgataaga ttgcaagtag aacttgtaat gaaaatgggg gggggggggg 240
tgacaactag tncattcctg atcatgtgtg acatataaaa ccactcctaa tttgttagca 300
gactctttta cgatgggtat atttctactc acgtgagact tcaaaaccac tcccagctta 360
atcgcacact caaatcaggg aatgcattag aatatatata tgttgagaaa ttattagact 420
tgatggaacc g 431

<210> 28896

<211> 403

<212> DNA

<213> Glycine max

<400> 28896

gtggaattct tggaaattgg aatcatgata ttagtaagca gtccaatgga ctttagcta 60
aatgctcaat acttgggttg ttcatggaag gaacatcaca ggttcaccca caaatatgta 120
tagaatatgc acttgattcg taatttcaag tatggctatt atcatgtttt tacagttttg 180

aaaatgttat cattttgatg tcaaagtgtg aaagtgtttt taaaaacatt ttcaagactt 240
 ttacactttg caccaacatc atctaacttg tatccattca actttttgtc aaaatcgaga 300
 agaaataaaa ctaacaaaaa tcaagaggaa tggagtttat ttttcccatt tcagatccaa 360
 tgcagaatat ttgtatgtaa aattttttct tgaacccaat agc 403

<210> 28897
 <211> 349
 <212> DNA
 <213> Glycine max

<400> 28897

ttacctatac ttaatagaac atacttatac ctctacataa taacctgtgt tgggctgagt 60
 gtgatacact ttacacgtgt tttatacgca ggagctagtt gtattcaccg actaacaact 120
 gcccacaaatt tatagttttg ctagtccctca tgcccctata gaccagctcg ctagtccctca 180
 cgtgaccctg acatgcaacg actatgtaca aaggagcatg caacaaaagt tactgattgc 240
 atgataggag aatggagtaa agatccctaa tcacttgtct tgcacaacgt atgcaatcat 300
 ccacagagaa gaatagtatg cactctgaac gattagatgg agctgatca 349

<210> 28898
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 28898

ctcagcttga ggatatgggg acccatcaca tgtggactat gtgtttgtcg ggcgatggtg 60
 cacaacaagt ttttccacat ccacaatgcg cgcataaacc caccatcccc tgttgccac 120
 ctccaactga gctcacgtac tcccacgtag cccatatact cgtttctctc aacaccgggt 180
 ccccatcaat cctcccaagc ttccacaaca tccaagcaaa acaacattca aacaacacaa 240
 gctatcacag ccaagcaaaa cagaacaaag acagaaaact ctgctcaaca catcaaccaa 300
 aatcacagct tttctcactt aaagaccaca gtaacaattc cttcgatcca attcataac 360
 cgttggatcg actccaaaat tttactggga gtctatagtg cataagccta catttggacc 420
 gttgggatct actggcaaa 439

<210> 28899
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 28899

actcagcttc taattttggg attgatgctc ttaaactggt ggtatatatt aaactgagtt 60
 ccaaccaagg ctgtctcaaa gacacctttt gagttattca agggttggaa accaagtttg 120
 cgacatatac gcgtataggg atgcccgtct gaagtaagaa ttataatcc acaagagaag 180
 aaactagacc ctaggactat tactgggtat ttcattggat atcctaaaag gtttaaaggg 240
 tataggttct attgtccatc ccacaacact aggattgtgg aatcaaggaa tgcaaagttt 300
 catgaaaatg acttgatcag tgggagtgat caatttcaga acatttcttc tgaaagggat 360
 cactatgaag ctgaaccttc tgggacaagt aataggttgg tagtcattct caccctcaa 420
 gttaaatg 429

<210> 28900
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28900

ntgtatctta ttcttgcata ttatctataa attctttgaa ctgtaacatt ttaatttttc 60
 gtaaataaat ttaaaaagct ttttagtcaa aaataaataa ataaataaat atagaacaaa 120
 taatagactg agtaccctag gtataaatag ttatgttaag tcagctgtct catttttagt 180
 ctcatcttcg tttttcccat tctcctctca aaatcctttc tttttcccgt agccaccaa 240
 acctgtctca gaaaaacgac gatctcgaac ccgttcaccg ttggatcgtc gtgaaatttt 300
 attatcatgt tcgcaaccca attcgaaca ttctcaccgt tgggaatttc aaaatcatat 360
 ctgagcttat aggagaaccc ttgcattgt agcattttta tttccgcag aaaccaaaaa 420
 ctgtctc 427

<210> 28901
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 28901

gacctataaa actcagctgt atcatcacaca catctgaatc gatatcgttt agtttttcag 60
anaacattct caacagtcac atctttttgt gtggttcttg aatggctatc ataggcctat 120
atatatgtga cttgagacac gaatttgaca agagtttttc agagcaaaaa ggtcttatcc 180
tcttataaag agaaatcggt ttatcctctt acaaattcct tggccaaatt acttgtgatt 240
caataaggaa ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct 300
tcttttcttc ttcttcattt tgaaaaggga ttaagagacc gaggggtctct tgttgtgaaa 360
taattctaaa cacaaaggaa ggggtgtcct tgtgtgttta gaacttgga aaggaatgta 420
taagatagtg gaactct 437

<210> 28902
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28902

ttccattctc ttggaagttc atcattggat ttttcttctt ctggaggatc tttattgttt 60
cctttatcat ttcttttga atcttgttca tgaatattca tatgttctaa agaatctgca 120
atatcatcta gcatattctt tcttgacaag atagcattag attcatcaaa ggtaacatga 180
atggattcct cgatattcat agttctttta ttatatatcc tatatgcttt gctttgtaat 240
gaatatccaa gaaaaatacc ttcatcatat tttgcatcga attttcctag attatctcta 300
ccattattaa gcacaaagca tttgcaacca aaaacatgta gatgagaaat attaggtttt 360
ctaccattaa ataactcata tgggggttntc tttaanataa gtcttattaa ggcctattc 420
atgatct 427

<210> 28903
<211> 437
<212> DNA
<213> Glycine max

<400> 28903

ctcagcttct aaggagggtga gcttagttat gagagggtgt gtttatctaa gctctagctt 60

ctcaaggaag atttctcaaa gaagcttctc aaggaagttt tctaaagaaa gcttctcaag 120
gaagctacct agtctataaa tagaagcatg tgtaacactt gttgtaactt tgatgaatga 180
gagtcttggtg agacacaact caaagttcaa cttctctccc tttttcttcc ttcaatttcg 240
tgctcccccc tctctcttcc tctccctctt tcttttcttc cattgaagca tctctctcaa 300
gcttcttate caaggctcat cttgggtggtg aagctccttc ttccaaggct tattccctag 360
tggatggcgc ctctctctc ctcttctcct ttgtcttccg cttcatctcc atggtgaaaa 420
atcaccatca aaggacc 437

<210> 28904
<211> 416
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28904

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ctctgcctca tctcccttta attcaggttg gttaacttaa attcttctga attattgctc 120
agttagtaac agaattaagg tgcaacaaga gtaggggaga taattttcat gccgctccaa 180
acattgataa tttctttgtg acattcattg aggtgctatg tgatagacc cctgggtcatg 240
attgggaaac tagatatgct tgctgagcaa acaaaacatt ggagatgtta agacaaagta 300
catgggagtt cttagagtat gaatgctctt gcctcttgct caaggaggaa aatgcttttcg 360
aggcanagaa tgcatttcaa caagagtaaa taacttttct ctcttgagaa atattt 416

<210> 28905
<211> 408
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28905

tgtaggatta tggggtatcc atcacatgtg gtactatttg gcagtcgggc gatggtgcac 60
aacaagtttt ccacatccac aaagcgcgca taaaccacc atccccgtt gccacctcc 120
aactgagctc acgtactccc acgtagccca taacctcgtt tctctcaaca ccgggtcccc 180
atcaatcctc ccaagcttcc ccaacatcaa agtaaatcaa cattcaaaca gcacaaatta 240

ccacagccaa gataacaggg caaaggcaga aaactctgcc caaaacacca accaaaatca 300
cagcttttct cacttaaaga cccagtaac aattccttcg atccaattcg ttaaccggtg 360
gatcgactcc aaaattntac tggaagtcta tagtacataa gcctacat 408

<210> 28906
<211> 423
<212> DNA
<213> Glycine max

<400> 28906

aagctaccta gtctataaat agaaacatgg gttactctcg ctggaacttt gatgaaggag 60
agtctcgtga gacatacttc acagccccac ttctctccct actttattgc ttcaattccg 120
tgctcccccc tctctcttct tctgctcttt tcttttcttc cattgaagca tctttccaag 180
cttcttatcc aaggtctatc ttggtggtga agctccttct tccatggctt attcctact 240
ggatggcgcc tctctcacc tcttctcctt tgtcttcgc tgcattcca tgggtgaaaa 300
tcaccattaa gggacctcat tgaagctcag agatccatcc tccatagaag cccacaagc 360
aagcttgcat catcccggtt cagattctat acaacgatta atacagaacg ttgcattaa 420
tcg 423

<210> 28907
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28907

cttgtagtgg aattcttgga aatttgaatc atgatattag tttgcagtcc aatggacctt 60
tagctaaatg ctcaatactt gggttggtca tggaaggaaac atcacagggt caccacaaa 120
tatgtataga atatgcactt gattcgtaat ttcaagtatg gctattatca tgtttttaca 180
gttttgaaaa tggtatcatt ttgatgtcaa agtgtaaaag tgttttttaa aacattttca 240
agacttttac actttgcacc aacatcatct aacttgtatc cattcaactt tttgtcaaaa 300
tcgagaagaa ataaaactaa caaaaatcaa gaggaatgga gtttattttt cccatttcaa 360
atccaatgca gaaaatttgt atgtaaaatt ttttcttgaa cccaatagca tntaatttgg 420
ttaatatattc taca 434

<210> 28908
 <211> 439
 <212> DNA
 <213> Glycine max

<400> 28908

tactacgctt gctatttata gagaaaacat ttataattgc ctatattgat taaatctata 60
 acgttatcga ttatttcaat gaagtaattg attatattat ttaagtaatc gattacagtg 120
 ttcatccaac atctagaaaa cacctcaaga ataatgtaat tgattagatg acctatgtaa 180
 tcaattaaag tgttcttggt cacctctgaa caacttaaat gagagagaag taatcaatta 240
 atccacttgg taattgatta aagcagagac tccaaaaaaa aaatcaatca ttgtgtcaaa 300
 caatagtgtc gcaatctacc cttcggcggg cgtgcgaata ggccaaaata gatgggccga 360
 agcatttgtc tccaagggag ataatgagcg gagtgccac caacgtttat tcgaggacaa 420
 agttagtgtc gcaacctac 439

<210> 28909
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 28909

gcgagtttga cacgctcagc ccaaggcatt tgatattttc atattcttgt tgcaatgact 60
 tctctgattt agaatagggc ttaacatgcc tgtctcgcta agcacattaa ggttacagtg 120
 gtccaacctg gtgagctctt actggcggtt atcttgttta atgagtcacg ctaagcgagc 180
 catgctcgct aagcgcaatg agctctctat tagagaataa cgcttaacga gccatgctct 240
 cttatccatt gaggtatttc aactgagcga aggtgactgc cttagaccaa gtgtttatca 300
 ttagttgaca cgctaagcgc cttctgatgt tttctgaacg cgcgcaaagc 350

<210> 28910
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 28910

tataaaacta agctattatt ggaacattac acccaaattt aatttgattc ttactatata 60

ttaataacaa aacaatacag ttttttttta aaaacaaaac gtaacttttt gagtgacatg 120
 tcttcaacga caaaatacac aaaaattaaa aacttgaata ataaaattta caaaataata 180
 aaagtttcct aataaaatat ggaattaaac cttccatcaa tttcttagaa actagagtca 240
 tatagttgtc atggatgaca ttcagagtcc tataactaat attaataata taagaaacta 300
 agaaaataaa ctttatatat gtaataataa caatagttta aattaataat taacctagta 360
 agcacaagtg aaaggatcga agacaaagtg attggcgcca tctcggggta gcgtagtaca 420
 gctcttatgg aattatct 438

<210> 28911
 <211> 326
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28911

catcangcat catcaagagg aagggagaag aaacaccgct aangcaggaa agnnccgcca 60
 gaaggcaaaa ctctctatct taatcaatta caaccttacc gtaatcgatt acacaagttg 120
 ttcgaagctt gtagagttat gtctcgatg gtgtcaatcg attatagcct tatcgtaatc 180
 aattacacag ttgtttttaa gataatgatt gatttattta ggagtctcta ctttaattga 240
 ttaccatgtg ttataatcga ttacttctct ttctataagt gtacacaaaag tgaacaacaa 300
 tactcttacc gattacattg ttcttg 326

<210> 28912
 <211> 402
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28912

aactcaagct ttagggtac atttacaacc atacattggc tnngatcact atgaggaaat 60
 tctcacaaaa aattgaatta gtgagacatg gagttacaag atttgctacc actttcttaa 120
 ctttgcaaag attgcataag caaaaggcca atcttataag gatgtttact tcagatgaat 180
 ggttgaagtc taaggcagct aaagagccca aggggaagca agcaacagat gttgctctta 240
 tgccatcatt ttggaatgat gttgtctatg ctttaaaggc tatagggcct cttgtaagt 300

tggtgaggtt ggtggataat gaacaaaaac ctgcaatggg tttcatttat gaagcaatgg 360
atagggccaa agaagcaatt catagagctg tcaataacaa tg 402

<210> 28913
<211> 432
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28913

gtggttatgtg tgcattntag ctatggtttc atttggttat tttcaaactc atttaaagag 60
gacttgcaaa gtaaataact ggttgaaact ttatttttca atgggtaacc gaggttacag 120
cataaacgat tgattgaatt tttattttta attcattaag gtagattacg acacaattaa 180
tcggtggaaa ctgcgtttac aatgataaaa gggagattac ggtacaatta atcagtcaaa 240
acttgcttta caatgaaata aaattactga tggaagaaga atgaagatga agatgtgaaa 300
agcaagagtg gaccactaag ggtgcataaa atgaattcaa aacttcaaaa ataaaaacta 360
accggtcgat caacgaagaa cggatgaagaa cggacgaaga acgatcatgg aaacgttatt 420
gaaacgttac cg 432

<210> 28914
<211> 427
<212> DNA
<213> Glycine max

<400> 28914

tttgccggta tgattatgat attcaataca aatttggttc ttcaaagtgc atttttgatg 60
ccctctagag acttgatcat gtaatgagag gtgaatgttt catcctgtcc attcctcact 120
tcattttcct caaagaattg aaacgtgcct tgcattccag tccaattttc aaatcataat 180
ggatgtcact tcagcaggat ttgactagct acccaaattt ctagattaaa gatggcttta 240
ttttcttcaa gggagctctt tgggtgaacc ccgacaaccc tttcatctcg gccttactta 300
caaaatttta ctatactctc attggtgacc atttgggcat caaaaagaac cttcatcgtc 360
tttagtcaaa tttcttctgg aacaccatga cctatgatgt taaagaattc atctgacact 420
ctaacac 427

<210> 28915
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 28915

ttacgatttc aaactccaca aataagagat gctttattat aattaggtga atttaatgat 60
 ggtcttaaaa taaaagcga agcggattgt ttagcaactt atgaacttga aaattttgag 120
 tttttattaa gtatgactat ttggtatgac atattatttg ctgtaaactc cattagtaaa 180
 aagttacaat caaaagatat gagtatggat gccactatag aacaattaaa aggtcttatt 240
 ttattttatt ttgaaaaat atagagaagg tgaatttgaa aatactataa tttatgccat 300
 agaaattgtt aatgaaatgg agatagaacc taagtttcat gaaaaaacat gtagtttgta 360
 gaaaaaaaac aatatgatag aaatattgat aatgaagttg aaaatcgcct aaagaat 417

<210> 28916
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28916

tgacactatg aaactcagct tatataagta attggtatgt ntcttaaatt gtttttgtat 60
 gtttggtttt ggtaagctta cccttggtg tggcacatga ggttggtgaca gtgatgatct 120
 taaactttgt atttggtgaga gtagctagtt tggaggttga tcattttccat ggagacatca 180
 tggatgggca agcttgata tgaaaatgca atccttcttg tgttgctctt cgttactttt 240
 atttatattg ctgattgact tagattttag gtagtttatc tttacaaagt tgtttatgct 300
 tatatgtagg ttttgaggaa atttgagtta ttatgggtga gtgcgtgtgt gtctatatat 360
 atatatcatg tcatgtttta atttgagct gtgcatttta gcctttggga c 411

<210> 28917
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28917

tctaaattag tgtacctttc tattegcagc tccggccttg ctatcctgaa agaagtgtat 60
 caacagcttt tcatcttttag agtggggcgcc catcttacgg cagtacattt tgagatgggt 120
 tttgggacaa gtcgtccctt tatacttgtc gaagtccggc actttgaact tcgggggaat 180
 aacaacatcg ggtactaagc aaagatccgt catgtctgca aacggatagt ccccaaatacc 240
 ttccacagcc ctcaatcttt cctcaaggag atcgagcttc ctccctttctt cagatgccgg 300
 gggcgccct tccatggaca aaactattgg cgaagctgcg atgttgggtt gaggcaacgt 360
 gcctggcgcc ggcccttcgg ggatcgnggg atagaactcg acatcccttc gagcata 417

<210> 28918
 <211> 425
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28918

gcacgtatcg gtcaagtgtg tggaccacgt tgtattcatt tgctcatcga taatgggtcc 60
 agtttaaacy tgatgccccaa gagcactttg gagaaattac cattcaatgc ttcccaccta 120
 aagccaagtt ccatgggtgt tctgccttc gaaggcaccg ggcgagaggt taaggagag 180
 atcgacctcc ctgtacagat agaccctcac acctgtcaag ttaccttcca aataatggat 240
 attaaccccc cttacagctg cctgttgggg cgcccgtgga tccactcggg gggagttgtt 300
 ccctctacac tccacaaaaa gttgaaattc gtagtggaag ggcatctggt catcgatatca 360
 ngcgaggaag acatcttggg aagctgcccc tctctatgc cttatgtgga ggccgcagag 420
 gagtc 425

<210> 28919
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28919

tattcaatta tcaataaaaa tctataaaaa aaacttgtga atgngcccac aaagacaatg 60
 tgataagcaa ttatcactca actaatcact aatcatgcaa tttaattaaa acacattctc 120
 ttatttaaat aaataactcc aaattatata acaaaatcat ataacttttg agttgcaatt 180

tttggggtgt tacgacctag gtctctagat tcttgatggt catacccgag taggtattcg 240
 atcaacatac atacatgtac ctaagtccta ataagagatt taatagggtta atgtagattc 300
 ccctaagatg tgaaaaagat gatggcactc ataaacaaaag agggagggggg ggggggggtga 360
 attcctataa aanattaata tggaattaaa tt 392

<210> 28920
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28920

cggctgatta aaaaacacat aactaggagt ggaaatatat taaaagttcg attatatttg 60
 ttgttgacaa atagagaata gaggatagta cacactaata ttacaataat aggaaaatgg 120
 aataattcat gtaccaaata aatgataact catatttgat gtgaaaaata tgttacccaa 180
 actgtcgagc ttgtaaatca acatatgata ttttaactta atcaagtga ttttaagtta 240
 atataattgt gttaaatatt ttgataaaga attttgatag ttataatagt tataatgtga 300
 tttttatata aaaataataa aaatcattag tcaatctggg taaagaaaga agacaagaca 360
 tagaggttac aagtttaaatt tctccaaaac gaatatttca nacaaaactt ataataaatt 420
 aacat 425

<210> 28921
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 28921

acatgaaaat tgaggaacca aaccaaattc atatgggaga ggcgtgagag ctaacgaagt 60
 ttctctgcta cactttgaga tggaaattca attgcagcat ccgaagaagc acttgagagc 120
 gagcacatca caaggaggcc aaggggagaag caacaaccac atgtcccaaa gcaagtatgt 180
 tggggtgagg caaagagcat caggggaaatg gggtgctgag atcaaagaca caacacaaaa 240
 gataagaatg tggcttggca catatgagac agcagaggaa gcagcaaggg cttatgatga 300
 agctgcatgc ctcttctgtg gatccaacac tcgcaccaac ttcattcacac gtgtgttcct 360
 tgattcccct ctgcttcgc ggatt 385

<210> 28922
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28922

tcttttanac tacacaaatt taattcctaa aggacttttt cttgacaaac ctatgaatgt 60
 gcatatttat taatataatt caatcatttc atgcatgctt tcagttgtgt gtttagatca 120
 atgttcccat ttaatagtct ttaaacttgc aaattttgta tcttgtctgt aggggtttgg 180
 atcccctagc cactctcttc ttttactaa gtaatatgcc ttcaaattta tcagtgagat 240
 cctaaaccat attcaatctg taatagttta atgtgtgtat atatgtgtgc aactctttta 300
 ttactacctc tttgtttttg cctcttcacc tttcaacca tccatctaata gttgcatgta 360
 ctctgcccta aattggatta tgcaatatga tatttatcta tgggtggatat tgatctggag 420
 tctcttacct at 432

<210> 28923
 <211> 433
 <212> DNA
 <213> Glycine max

<400> 28923

actcagctgc acatatgcat aaatatgaaa ttggggattt ttgcactact aagtgatgct 60
 aagggtgtgta gaataaacct ttgtagtctg ataccatttg atagctcgat accatttgaa 120
 aatcacaagt ttgccatcat gcttagcatc atgagtagct agacatcaaa aatactagaa 180
 accccgtgag atcaacatta taagcaagggt tctaattttt catgataaac acaagtctag 240
 ctatcatcct atgcatgcta gttatcatat catcattcaa gttctataac tagcatataa 300
 cacacaagca tgcataattaa atataaaact tatgcaatgc aagcaagcac atgaatatgc 360
 acatatcaaa tataacaaaa caatgttcat gagcttgctc tccctacttg tgtgcttctt 420
 ttgtccaaga att 433

<210> 28924
 <211> 429
 <212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <400> 28924

tcccttgtga tgggatcaaa ccttgcactt gatacttgtg tttctcctgt gcgagggtgga 60
 caaattttgt ctttttacct atctgtatca tttcatttcc ctttctcttg gctcaaattgt 120
 gtgtcattgt cctgaattta tatatttatt tactagtcag acgctcagtt tagttacttt 180
 ctttgggtcaa gaggctaagc cctgttttaa atgcaactct agtttagatc aggccaacaa 240
 tgactaaagc taaatccaat aaatctcctt aacccttcaa agtattcatt ttgatccaca 300
 aattaaaatt taaaattact gaacacaaag tcccgaacag taactataaa agaattatcc 360
 ctataaaaat attattttgt gaattattat taattntttg gtataatcaa aatgtataat 420
 tccattccc 429

<210> 28925
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 28925
 aattgaggaa cccaacaaa tctatatgtg tgagttgcca gaactaaggg aggttctctg 60
 ctacactttg agatggaaat tcaattcccg cattcaaaga aacacttggg agccagcaca 120
 tcaaaaggaa ggtaaggag aaacaacaac caccaaacca aaagccagta tgttgggggtg 180
 aggcaaaaaa catcaggga atgggttgct gagatcaaag acacaacaca aaagataaga 240
 atgtggcttg gcacatatga gacagcagag gaagcagcca gggcttatga tgaaactgca 300
 tgccctcttc gtggatccaa cactcgcacc aacttcatca cacgtgtgtc cct 353

<210> 28926
 <211> 426
 <212> DNA
 <213> Glycine max

<400> 28926
 aggaatttgg acaaagacgc tagtatcatc gttcttttgt caaggttagc ttatgaactt 60
 ctccaacggt gataggacag tgcatttcta gtatcatcgt acaattgtca aggttagctt 120
 caattccccg gtgggtgatc atgaaacca agaattttct gcctctaacc ccaaagggtc 180

atttttcaag attgaggcgc atgttatact tgagaatctc tttgaacacc tctgccaaat 240
 ttgccacatg tttggccatg ctatgagact tgacgaccat gtcattcaca tagacctega 300
 cattttgtca tatctgttgt ttgaagaccc agtccataag cctttgttat atggctccta 360
 cattctggaa gtcgggcgca ccatccataa gcttttcgat gatgggaaag ggatatgcat 420
 ccttgg 426

<210> 28927
 <211> 419
 <212> DNA
 <213> Glycine max

<400> 28927

tataataaga aagtgaagtc aaaaactttt aactctgtat atttagtttg gaaggttatc 60
 ctgcccattg atagtaagga tcgagccttg ggcaaattgg ccccaaattg ggaaggaccg 120
 tttaaataa ttcagatcta ttgaatggg gcttatgaat tagaggaatt aaccctcag 180
 aaacgtactt tgagtataaa tggtaaatat ttgaaaaaat ataaaccaac attgctcgaa 240
 gttaaataa gcatagaata gacagaagta atggaaacat aaaaatggcg ataacagtaa 300
 aattgccacg aaagggcatg tgtcaatatt acatcaagag tagaatcgaa atacagaatt 360
 cgaaataaaa aatcataagt tctactaatg catgactaag tcctcatata gtttcttca 419

<210> 28928
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28928

ntatgatcaa atntttttct ctctttntct ctcaacctgt tttcattctt cttcctcttt 60
 tcacttctgt tcttccaatt tcttgcacaa aattttgtgc cttttccatt ggtgatgatc 120
 atggaaggct aaacacttaa tcaatcaaag gatccactcc aagcaaggct aaatttgaat 180
 ttttgtttag tattttctaatt ctttctgaat gttcatcttt ttcttcaatc ctatttttga 240
 ttttcatgag tatgactatg cttatgatta taaatggatt acgctatcga ttcatttctt 300
 aatttcgaaa tttaatcaga gattgtgtgg atgatcttcc aacctaatat gcgatctcta 360

acaatttaag gattgattcg attgaactat ctctaatagta ttagactg

408

<210> 28929
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28929

tatcccaatg ttgagaagtc tatctcaatc aaatctttgc ttacaaaagt taagggtgaa 60
gcttctacac atgtggtaca tgaaaaacta agtgagatga aaatggataa caataatgca 120
gatgataaaa tgcctagtgt tgaacctgtg aaatatgatg aacctctaatt ttagataggc 180
ctgaaaatat aaatattgag aaagaaaacta gacaagacag gcaagaaaat gttgtgcaaa 240
catttgaaaa tatagttgga accaagtcta gcaatgggtt ggccaggtaa gtctttgtat 300
tcttatgcca tcttttcgtt gaaaaagtat aatttagttc attagttaaa taatactaca 360
ttatatgtac tagtgtattg taaacatggt ccattgtact ttnaaaatta tttaata 417

<210> 28930
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28930

agttgtaatc aaccgtagt tagttatagt tagttgttgt tagttactta tatttttagtt 60
ctacaaatac atgcaagtaa agcttctatc aattcagatc aaacaccttt gtgagttcta 120
aatctctttt cctctttgtc aagctntctt caattcgtca ttatgaatca attcaatttc 180
gttaacaatc cattccccgc aacaatatgc ttttgcttc ttatattcct ctccaacca 240
acaacgttta tgactcctaa tttttcaatg ttgttaataa ataaatgcaa attcctaaat 300
gacgtttgca cacctcttcg atcttcgtga tcatcaatac tgattacaga taacgaggaa 360
acacgacaac aactctcctt tgtcttttga agctccttct cattntcttt ntctcaccaa 420
tctcaaatc 429

<210> 28931
<211> 292
<212> DNA

<213> Glycine max

<400> 28931

aagaggaagc atatcaagga gagaatgcaa attttcaatc cccgagaaag aaacgaagaa 60
gaaaggaaat tccccatcta agagtgggag acagaatata gatatgaata gaaagaacac 120
tcccaatcaa agaatgggag aaggaaaaaa agaagtataa tataagaaag ctctgtgtca 180
aagaaactat aagacatgtg cacaaaggtc ttttgaccgg acgatatctg aacaatacag 240
aattgtcacc acatgaacaa taaaagaacg aaaggaaacc accacctaaa at 292

<210> 28932

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28932

tcaatacaat gattaatgca gactatccac aagaatctct gtattgaatc tcaaacagga 60
atctaagggt cactcatgat aaacattaac tatatgcaca acaatagtca ttaatcacat 120
aaaacaacgt aaaaataatt gtaacataaa ccaagccaag aaaagtacat gtgataatgc 180
tcagtatcaa tagtgtccaa caacgaatac cgtgaacgat gacgcaaaca acaaaatgat 240
aagggtctgc gagcttatga tgcaacaaat aagggttcag tatgcttcta tagaaatgac 300
tgacatatag ataagacaaa aacatcaaat tntccaatca taggaacctt tgaactagaa 360
tggaataaac angttaataa gaacgtagcc aagtttctga gtgcagatcc aataacatga 420
ttctgcatga gattatg 437

<210> 28933

<211> 430

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 28933

acacaacaac acagaatcta ggtgtccaat actctctttt ttcaatgggt tttctaggtt 60
tgaaaagtga aatttagaat gaggtaaatt tggagcaaac tctcacctca caccagtcca 120
taacatctat ttagacttgt tcaaactgga ttacaccta aaatctcacc gaatcaaaat 180

ttgactcttc aacaccta aa tttgccctaa aaatggctct ttgttcactt tggtcattta 240
 tttttctctc tagcacagtc caagctttct cataagtcct aaatgacatt tcaagctagt 300
 attaactcac tttaacctcc atttaccaca gaattcagac ttagccttcc aacctcana 360
 gtctcactct ttttccactc ataacatcac attctcattn tctaacccta ggtagttct 420
 acccttcgtc 430

<210> 28934
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28934

ntgtatttag gttggatggg tgggtaatta acttggtgat atagcaggaa cttattgtta 60
 tgctttgtgt gagaatatat gtatcaaaaa caaatcattt ctgatgttgt atgaatggaa 120
 aacattgatg tttcggaact aaacattggt tgtgtcaaca atgtagaac tgaagacgtg 180
 gaagatgcct aatccctcaa aatgtcacag ttttgatgat aacgaaaata ttaaactttg 240
 atggtcaatc taatgaggct tattaagtgt tacaggtttt ttttgcgtct aattatgata 300
 ttggtattgt atttcttacc ttagatgcaa aatctattnt aattggacat atgctcaatg 360
 taaccaaag atggattcag tccaatattt tctcaagtta gacttagaat ataccgttct 420
 ata 423

<210> 28935
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28935

tgaatataat gaaacttgct aacttaacan agctaagttt cacttattnc tcttaaggtt 60
 cttcatcca ttaaagttga tagcgtaca catggccggt actgtgaaaa gagagatagt 120
 gggaactcta aacacttttt gtagcatatc ttcatagaac tacaacttgc cagtgtcgtc 180
 ttgcgctcaa agttgacttt tagtgtacaa atcaaata acgttaacag cataagacaa 240
 aaggaattaa gaatattaag acaagacaat ttaaactctc cttttgtgc gttgtggcac 300

gagttgctta ttgaacctat ggacgtact ttctgatgat tgctttttgt acttaaggat 360
agagtaattg tticattgcc ttgtactat gagcgaagtg tcaaagcact tttcttctga 420
ggactggatg 430

<210> 28936
<211> 456
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28936

actcggttgt gctcgtgcag cggaccataa aactcagctt gaccaaact actctcataa 60
cctgttctctg gtgagaatgc catccttacc ctccgagcca aaaaaagaaa gagaaggcaa 120
tttccatcaa gaggaagcat aaaaggagag aaagaaattt cccatcacca gaacgaaaag 180
aagacgaaag gaaattccca atctcagagt gggagaacga aaaaagaaca gaacagaaaag 240
aacactcccc atcaaagaat gggagaacga acaaatgatg caacaaagaa gaaagctcct 300
ggtcaaagaa actagaaaaa atgtgccgat agtcttttga ccggacgata tctgaacaat 360
acagaattgt caccaaatac acataaacag aaggaaagga aaccacgacc taaaatggtc 420
tgtctccttc taataccgac nncaaaccg tgccgc 456

<210> 28937
<211> 428
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28937

taatcccttg angactaacg gtaggagatt tgccctttat tcagctaagg actactttcc 60
ttagcaccct tatgttcaat atgtcggatt tgccctggag atttgccctg aattttctcc 120
tttgaaaact attttatttg gaaatccttc ccaagacacc attgaaccac tgatggaggc 180
tttgaggagaa gattataacg atggacatga gataaatgac tcacggcagt ttattgaagg 240
agtattggat cttgaaaaga gaatcaatag actagatata tcgacagaaa ttaaatataa 300
caaattntgt cattgttgaa caaattatta gcttatagac caaatcttta ccatttgata 360
atatgtgtta cttatttctg atacgagcat aataaagtga catgaatgtt caaaaaatca 420

aactacaa

428

<210> 28938
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28938

ntgagctcaa tagctccaac ctcatctata ccccatattht agaatggcca aggtgctacc 60
aagacgttca aaggtacggc cggagcattg acattatcgg tgaaggcctg gcacttgtgg 120
cacttcctca catggatgca acaatagtht tccatagtga gccagtaata ccctaccctc 180
agaatcttct aggccatggc atgcccgttg gcatgtgttc caaaggatcc ctcatgcact 240
tctactagca tttgcttagc ctcttggca tttacacatt gaagcaaac catatcatgg 300
ttcatcttgt acaagatatt tccacttagg aaaaagcagg ctgcacaaac attactcagc 360
tcagcaagaa caatttctta taatattcaa ccaatttaga atcaagaact caaca 415

<210> 28939
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28939

taatccccctg aaaatggtgg gtatgagatt tgcctgtat tcagctaggg attactttcc 60
ttagcaccct tatgttcaat atgttcgata aataaaaata gttttttttt ttttgctatg 120
tgcattgagag tttaaagtct agttgtcaca caaatgtatt acacaaaagt acctatcaca 180
taaagagtgg ctatgcaatt tagaatgcat caagaagtht tagattgtgt ggctacattc 240
tttgaacca aaggcattgc atggaaaaat tactacatac ccatacctaa cgggaatttc 300
tatttaccctg cttgcctttt ttgagggaga tgtcaccaca tgttatgcan gatggtggaa 360
gcagtcaata ttgcatcatc atcatgattt tgcaaagaat attactcagt gaa 413

<210> 28940
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28940

gtactagtca tatatatgtt acaaaacaac gaaagctttt tcgaatcgat tattgttgat 60
acagaaatac ttaaacaac ctgccaatta ggggttttgc ggctttttgc aaattccgcc 120
catgtttctg gatcaaggcc atacttgact gtaggatcag atatttgctg accttcattg 180
tcagcaaaga caaatTTTga agtcaatgaa gacttaaatt gcctccatct tgctgcaact 240
gttgacatca cttttttttt tgcattttca ctttcaggga tatcaaattt gcgctacaca 300
acaaaaggag ttatgtaaca gtatgtaaat gaatccttta caagtaactt aacaacaaaa 360
tcatgaatac aagtgtgaat tacttaccan aatatctttc catattaagc tctttagatc 420
gtcg 424

<210> 28941
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28941

gtgcagtgtt catgtggcca aaagaagaaa gtgcgtgttt ttatatgggc tctaattttg 60
tttttattcc ttcaatttag attatttttg tttcatcttc tanattttaaa ttattttttt 120
taattttctca atttcaaaaa atatttttct taaaataaat ttaaatttaa aaagccaaat 180
taaaagttac tcaaatttaa aagataaaaa atatatctaa atcttaaata tatcaatcag 240
aaattgattt tcaattatca tgattatttt tttcaaaata tgtgtaaatt taaattaata 300
taatttttgt ttgtaaatgg atattacact attgattcat agagaatgtt gtttagaaac 360
ttataatcaa aactaattnt aagtgcataa ttattcaaat gggttttaag aactatttan 420
ataaaagttt 430

<210> 28942
<211> 197
<212> DNA
<213> Glycine max

<400> 28942

gagtcatgac tccacgtca tgtatctgca agacactcct cgattcaaga ttcacgagca 60

gaattctaga tgcaacagag ccctactacg tatacgatat gtctctatac agtttaccat 120
 ataccacatg tcacagttat gacatacata agagagactt cacatccaca gtgattactc 180
 tctagaaatc gattgcc 197

<210> 28943
 <211> 239
 <212> DNA
 <213> Glycine max

<400> 28943

cctgagtcac caccatagcc gtggtcagca ctttcaaacc agaatggatg gttgcagcac 60
 ttgtttaatt ccaccacaat attcataaga gaaacctgat atttagcaga aaaagattag 120
 tgatgatctt tgaagagaac cgaatctcga tacatgcatt atgacgttaa acttctccga 180
 attttgccag accacatgat cataaacaga ggcaagattt cattataatg tcttctccc 239

<210> 28944
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28944

tgctctaaag aggtccttta ttgacaaggc agccgaatga actagttccg ctccggagta 60
 tgatagtcac cgcttttagga gtgctgtaca ccagcagcgc ttcgaggcca tcaagggatg 120
 gtcgtttctc cgggagcgcgac gcgtccagct cagggacgac gagtatactg atttccagga 180
 ggaaatagga cgccggcggt gggcatcact ggtcactccc atggccaagt ttgatccaga 240
 agtagtcctt gagttttatg ccaatgcttg gccaacagag gagggcgtgc gtgacatgag 300
 atcctgngta aggggtcagt ggatcccggt tgatgccgac gctatcggcc aactcctatg 360
 atatccggtg gtgttggaag agggccagga atgtgagta 399

<210> 28945
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28945

tcgacatctt tntgtataag tcttgtgttc ctatctttcc ttttaattcc taaaattaat 60
 tgtcttaagt ctttacaaaa cagagagcat ggggatcatc aaattggcat tattctttga 120
 aaactcgaac aatacacact tggaggattc atgaggatat catttactat taattaattt 180
 atactacatg gcttcgataa aaagaaaaaa aaaggaaata actttccac ggaagcaaaa 240
 caatcaagca acctttgtca aagtttagct taagaaaagg acaaaaatga aaaatgttcg 300
 gcgtgtggaa gtgagatggt ttgatccctc atctggttca gccagtaatt tatttaaagg 360
 tagcaaatac ttactcatcc attgtaaatt attaacttga taaatgaaga aataaagggtg 420
 ttaatc 426

<210> 28946
 <211> 428
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28946

ggcacttctt cgctttcttc agggacttca gcttcnttcc cacttgggcc ttttagcttc 60
 gggagccaat ttatcccttt tgcctagaa ttcaaccact tgtgatagtt gccggcgacg 120
 ccattgctac ttcccctaag ttccttatct ttcctttcta ttgtattcca cgcttttttg 180
 attctctgaa gtatcctcgc attggcttca ctgaaacctc gcgcgacgaa aggtgcgatg 240
 atctcctcca acggtgcacc tcacataggg tagcctagtt gtcttatggc caacatggga 300
 ttataattaa tacaaccctt cgttcccatc gaggtgacgt atgggaatcc ttcacacaag 360
 cacaacactc ctgcccctcc ttctttccat cgggggaacc agctattgga cgctcctacc 420
 atacctgc 428

<210> 28947
 <211> 247
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28947

cgcgaagctt ctcttcatat ctgcctcagt gggcttatag cctaaaccat acttnccacg 60
 aatttctttg gcatttatca ggcttggtat gtcaccgttg gctttgcca aaccattcc 120

gggatcgtaa ccgcttccca acataactcg ggccatcatt actggtgcat cggacaagcg 180
aagcttgcca gaaaaggaat ccacggagga aatgcttacc acctcgaaaa actggaaagc 240
ggtttct 247

<210> 28948
<211> 414
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 28948

actcagcttt ataagagcgg gttcgggaga caaaggtcaa tttcttggtta tatgcgaatt 60
tttatttccg agtactctgg atttgggtacc accatgctct cctgatttcc agctgggaaa 120
ttggcgagtg gaggaacgcc ccggcattta cgctacacgc ataatgtaaa cctttgcggt 180
ttcaaaagct ctatagttgg gcctaggctg tagagatttt ccttttgcta aggctttgcy 240
tcttttggtt ttgaatctat aacacaagga tctttcttca tctgttctg gtctctaccc 300
attctcattc attngcatga ttacttctat ttctgaaacg gcagatccga tgacgagtc 360
cccgaaagta ctaatacctg tgacccgcct atcgacttca agcaagacat gaat 414

<210> 28949
<211> 413
<212> DNA
<213> Glycine max
<400> 28949

ctcacctttg gtctctctta tttttgttgc atgagattac atgctctatt ttcattctcc 60
actccaagta ggctccgga tcattctttc ctttaaaggg aggaatattg agtttaatac 120
catcaatccg gttttgtcta ggaacaccat cattccctct tctctctctt tcttcttcat 180
tatgatctct attctccatt tgatccaacc tctcatggag cgcacatctt cgttgtttca 240
ttaacctctc caaatgttgc atcaaagctt gcatttgga ttgcgaaagc cccactccat 300
cattaggatt tgttctgtc atctcaaaca aacaaatcaa acgtaacaag acaattatag 360
ttgttggttg aatacctcac ccactcaagt gtatcacaca attatggctt ttc 413

<210> 28950
<211> 404

<212> DNA
<213> Glycine max

<223> unsure at all .n locations
<400> 28950

tgcttgagaa gcttctatgg aggatggatc tttgaattta atgaggtcct tcaatggatga 60
ttttcaacca tggagatgta gcgaaagata aaggagaaga ggtaagagga ggcaccatcc 120
actatggaat cagccatgga aggaggagtt ttgtaacgcc cagaaatttt gataattgaa 180
aatagatggt tgatgttttt cttgtgttat ttgattactt gattaatttg gatgagttaa 240
ggatattatgt gaattatcca tgtgtgattt tcttgatgtg gatgttgagt tatgtggact 300
tttattgact tangttgaaa ttatgagatt tcaagtttta cttanacctg ttccactaaa 360
accacaatcc tgaattagtt aaccgttgga tcgctttcaa attt 404

<210> 28951
<211> 273
<212> DNA
<213> Glycine max

<400> 28951

taacttgctt attgctgtga cttacagtct tcacggggct caccttatgt gtctactga 60
ctgtgaagtc accctcactg gctgacagac ccgcagggtc agccatacag agatttgacg 120
aacgccacca tgcttgctct acaatctcgc taagacgac catctatgat ggccgggtctg 180
ttcactgcga ctgactattc cgccatgacg ctgagatttt atctctgtac agctctctct 240
ggaactgcca gagtgacctc tgagacccac tga 273

<210> 28952
<211> 173
<212> DNA
<213> Glycine max

<400> 28952

tcacatataa ctgaaagttt ccgtatcctg cagcatgcat catagtatct ggaatgccat 60
cagaatttgt atgggtgtac gtaaactctg atatcttct aacttatcaa aatttaaagt 120
ccgacctttt gacatcaaca aacacgacta cacgggtggag agatagatgg tga 173

<210> 28953

<211> 310
 <212> DNA
 <213> Glycine max

<400> 28953

agccgtaagg tttggtccgg cgacgccttt atcggctgac ccggcgcggc catcgatggg 60
 cgcacccatg tggcctcggc cctggagcgc agtgccatgg cctgtctggt cgaagcgcac 120
 ggtggcgaag ccttcaggta ttgacgcgag cacatcgcgg cgctgcccgg actcaaggcc 180
 gacacggggc tgaacctcga ccactgtgtc cagcatccca gacaccagat cgacgtgctg 240
 gccgtgaccg gtcccactag gaagaccacc accgcctggc ggctggaaca cgcgctggcc 300
 aagggaagct 310

<210> 28954
 <211> 318
 <212> DNA
 <213> Glycine max

<400> 28954

gcattatgca tcatcgtgag taaatgagaa gaaaaatttc taagttggaa aagtttcttc 60
 agaaggaaaa actctatggt ttaatccatt atagccttat cacaatcaat tacacaaatt 120
 atcttaagct tgcaaagtta tgtctcgtat cgatttaatc aatttcaacc ttctcataat 180
 cgattacata attttttttg agtcaatgac tgattcattc acgagtctct gctgtaatcg 240
 attaccatgt gatataatca attacttctt tttctataag tagttcacia gtgaacaaga 300
 acactttaat tgattact 318

<210> 28955
 <211> 240
 <212> DNA
 <213> Glycine max

<400> 28955

ccaagtacac actctatagt gcgactagtt cggtcaggct gaccatctgt ttcacgatga 60
 tatgccgacc tatgcttccg ctctgtcccg agggctacat gtgaactatg acacaatcgc 120
 taagggtacc ttggatccct gtctggagca ttactctacg gaattccatg catccttact 180
 acttccttgg tgtaggactc cactaacttt acccttctat acgcgtgtat tcaactgagat 240

<210> 28956
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 28956

tataaataga agcatgtgta acacttattg taactttgat gaatgagagt cttgtgagac 60
 acagctcaaa gttcaacttc tctccccctt ttctctcttc aatctcgtgc tccccctct 120
 ctctttcttt tctccattg aagcatcacc tccaagcttc ttatccaagg cacatttttg 180
 gtggcaaagc tctttcttcc atagcttatt ccctagtga tggcgctcc tctcacctct 240
 tttcttttat ctccgctgc atctccatgg tggaaaatca ccattgaagg acctcattga 300
 agctcataga ttacgccacc tcttctcctt tatcttccgc tgcattctca tgggtggaaaa 360
 tcac 364

<210> 28957
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28957

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 caagcatgct agctatatct ttttattcca actatatcca ggtgggcgct atagctctac 120
 atacacacca ttgccccgat cggcgggaaa gaccgtcaca tatgccgaga gcccaaagaa 180
 acctcatctt catgagcacc gtgggaaaag cacatcttct ccagagagac atgcgctctt 240
 aatacagaac ataggcgaca atatcactaa ccgactaaag aggatatgtg actcactgat 300
 accctgagca ccacgcttct aacgcaatca ttgaaacaa acgcggggga agctcctaaa 360
 cggctaaacc ttagcacctc gccgaggggt ttgatgactc gctgagctat agttggcagg 420
 atcctcgag ccgtcacaca tgctggcg 448

<210> 28958
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 28958

cttgattttc tcacggtgca cttggacccc atctctacca actacaaacc ctatgaaaac 60
tatattatct acacaaaaag tacacttctc tatattatca tagcgggtgt atttcctaac 120
gactaaaata acttgectga gatgtcctaa gtgatcatct atgctccaac tgtacactaa 180
aatatcatca aaataaacia ctacgaatct acctacgaaa tcccttaaga catgatgcat 240
aagcctcata taggtgctta gtgcattagt gagcacaaaa ggcactacta gccattcata 300
caaaccaaac ttggtcttga aagcgggggt ccactcatca cccgttatca tactg 355

<210> 28959
<211> 336
<212> DNA
<213> Glycine max

<400> 28959

tatccgaata gcatgaatca tgtacttagg atattgtgcy accatactct tctgctttac 60
tcttgacaaa gctattatgc gagcaacccc tggggcttta cgcaccaagc gtttatgatg 120
atgtgatacg gtcttattca cctctatgtt agagcctact ctctaaagga tctttcagac 180
tatgctgaca tgcttatgat attgaatgta ttctacgtca gatcttgctt cgtacgttta 240
tggtctctac ccatactcat tcttgaaca tatectataa ttcactgaaa accgtgcatt 300
ctctgacgag caccceaaat gtaccatac ttgtga 336

<210> 28960
<211> 369
<212> DNA
<213> Glycine max

<400> 28960

tcttctacac tccggagtga tcaccggtga tagcaagctc aacatctcca actttaacct 60
ctttacggtg ctggaacaac taaaaaatat ctctccacc atggcctgca gcactatgac 120
atacaccatt cggagatcct ctgtccgaat ggcaaatgat agccactgcc aaacatagat 180
gtgctatgaa tctaaagtat caataatacg gataaaaaaa atctgttatt aatgattttg 240
catgctagac cagaggatca gagtctcctt atcaggctca tactcaagtg aatcatgatg 300
tcaaagagag cagggggaaa atacatctcc aactggcata gtataattgc gggctcatta 360
tcaaactca 369

<210> 28961
 <211> 364
 <212> DNA
 <213> Glycine max

<400> 28961

aactgcaaag caagttatga aggtagagca attagagaaa ctagcaaaac tggaagattg 60
 gtgtaagcaa tttcttatta ttactttctt gataagggtg tgcattttgc cgatgttttt 120
 aagtacatat ctttttttat actgaagaaa aaattaaaat ggtaaattag taatttcttt 180
 atatttgtaa gtgtgggtca aagaccatgt cagcattaag aacaaacatg agcttttagct 240
 tcatttgaaa agttacatta aaagctaccc aaactagagg aataactaac atttcagagt 300
 ggcaatatac tcacaatatt ggatggatac ttgcaaccag ttatctagcc ttacagcta 360
 acat 364

<210> 28962
 <211> 180
 <212> DNA
 <213> Glycine max

<400> 28962

acacactctg accgtgaaac ccatttgacg cccgtgctaa cccagggag atctgatcca 60
 ccccccacct ctgttaccga acacaggtaa ctggactgct cattgtccat gagaaacccg 120
 tgcagtcctg ccatgaacgc ataacacacg ctatagagac accactcatg attaccccct 180

<210> 28963
 <211> 362
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28963

acacgtgttt ccgaactctc tgacgatgat gcttattacg cactactata gatctttgtt 60
 tgtgagagga gtagaaattt aaaaaaatgt gaaaggagca aggagtgtgt atacaatgta 120
 cataggaatg ggacataaag tgacttggac gtccctaccgt gcgcacaaaa tcaatgcata 180
 aacttcgacc tatgttaggg ggaggaatca ttaacaaaga ccataagaca gctctgctgt 240

tccttacata taagaataac catgtgatgg gattcaagcc aaaatttgtg aatagtgtta 300
 tgtcngcaat aataaact ggctagtggc gactaactaa cggacgcaa gacaattcac 360
 ga 362

<210> 28964
 <211> 182
 <212> DNA
 <213> Glycine max

<400> 28964

cttttacgcg ctaggccgtg cttgcttctt gactttcatg aattgagtaa accacctatc 60
 actactttgt ctacactggg aaattttcag atcatgaaat cctcaccgac atgtgcttta 120
 ttggattcct tagagagagt atgaaaatat gggataccgt tgcaagagct atcaccttca 180
 tg 182

<210> 28965
 <211> 232
 <212> DNA
 <213> Glycine max

<400> 28965

catcctgatg caatgaatct atgcaatgcc tgtaattcga tatttttggat agatagtacc 60
 tacattacac acaggtacct actttctata cttgactttg gtaccgtcac actaacatgt 120
 ataacattct ctgctgggtt tccctattag gatggagaac gtctacataa tgttgtatga 180
 accctacaat gattaccagg tctattactc aaacgtgacg ccctacctag ag 232

<210> 28966
 <211> 297
 <212> DNA
 <213> Glycine max

<400> 28966

ctcatctaac atacctgcgc agcttcctct caagactaca agacatgcta cgaacattct 60
 ggcggggccc tcagagcatc gatgctatct gcacaaccac ttatactgat cactatgcct 120
 tgtcttagat tcagggataa ttgttcagta tgcttcogga cagcataca attcatacc 180
 acagaagttc gtttcttaac tgataccgca tcttgccgat cacatagact actacttgca 240

tgataacgat atgttcatga acctcactaa gagtggaaacg atgctctcat gtgactg 297

<210> 28967
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 28967

atccaaagaa gaaaaaaaag gactcatctt atataccaca aggtgaagtt taacagctaa 60
 gaactggaga caatatcacc tcaatatatt gttaattaaa agacatacat gagaaaccat 120
 actaccatta tctagttttc tagcaccaac caataacttg agccactaga tccctaattg 180
 atggcatcat attaccttgc tctattattg ataccaaact tcaatacaaa accataagtc 240
 aagcaaacct tctttgatcc taaaggtatt tttgggttga aaattgtatg caagatcaat 300
 ttaccagcaa gatcagctct aacattcttg ggatgatata aaattggatc agcaaatata 360
 cagattgg 368

<210> 28968
 <211> 275
 <212> DNA
 <213> Glycine max

<400> 28968

gtttggagtt taaagcatgg acaacaccag gagaatggat catgatcatt gttcctacct 60
 tgtcggtaaa tcaatggcaa tgctaattac atataggctt tctagttttt ctttgatcat 120
 gagcaactac tcatcttagt ctagagggtta tgatgtaagt gtccaattgt acctctttct 180
 ctgttcttaa tgaaattcct cagcattatt atgttaatta attctcttcc ttgttcttat 240
 tgttcaatcg gaaactaatc aatcctattc ttaat 275

<210> 28969
 <211> 304
 <212> DNA
 <213> Glycine max

<400> 28969

aataggaaga agctgctcaa ttgttgcttc ctgcaatgaa gataaggtag aacagagatg 60
 cacatttaca ccaaataaaa ctactactat cacaatggcc tagaaaatag attttgttga 120

ttatctttta ttggagaatg gagacagaag atacaaattt ctaggaaact aaagagacag 180
 ggggagaaaag gctaaaaatt ggtgatacaa tattagttgc atcacaatct agtaaattca 240
 atataagtgt tcatacacta ctacaaaaag ccctttttta gacacgtgct ttacgtcggt 300
 tgta 304

<210> 28970
 <211> 150
 <212> DNA
 <213> Glycine max

<400> 28970

ttcgtatgac tacttcttta gctatcgaaa agttacagaa actgacggac tgcatatcaa 60
 tgctctctta tgattactgc catgttgacg atgccaccg actgtatatc agagcttgct 120
 tatgatgccc gacaagtaac agagcttact 150

<210> 28971
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 28971

actttggatt tggtagcacc atgcctcctt gatttccagc tgggaaattg gcgagtggag 60
 gaacgccccg gcatttacgc aacgagcata atgtaaactt ttactgcttt aaaagctcta 120
 tagtcggggc taggctttat agtttttcca tttgttaagg ctttgtgtct tttgtttttg 180
 aatttataat acaaggatct ttcttcatct gtccttggtc tctaccatt ctcattcatt 240
 tgcagtgttg cttctttttc tgagactgca gatccgatga cgagtcccc gaaggtacta 300
 atacctgaga cccgcctatc gacttcgagc gagaaatgaa tcagacggaa gatgaaggaa 360
 gtgag 365

<210> 28972
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 28972

tctaatagaa aacgtctctc tggaatacgt atatattata ccaaaaagat atttctctaa 60

cagataaagg attaccaaag aatgtatctc ttttaagaaaa aatgatataa tgcgtaatta 120
 aaatataaaa aggacaaatg ggggtatgaa tagcaagtgt tcaatataat ttctacccat 180
 aatttattat taaaaaattg taccattat tctctctcct caacctttct tctttttta 240
 tatttgaaga attatttcac aaaaaataata atacatttca caaactaatt tcttaaatat 300
 tactataatt ccaacgatga ata 323

<210> 28973
 <211> 118
 <212> DNA
 <213> Glycine max

<400> 28973

caacaatgtg attcgaagat tagatcatat acctcacaca ggcaaccct tagataggag 60
 ctatcatacc cacgtgacaa tcgcttacgc gagatatgac tttctgcca ttttacct 118

<210> 28974
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 28974

aacatcacia tcttaaaatg ctcaaacttt gaaatagtgg taaacaacia ttattgatgt 60
 ggatttatat gtatgtgatt tcagggtcat tggagctatt ctcatagtaa tgggacttta 120
 ctcagttctg tggggcaagc acaaggagaa caaagagaaa gaggcagaga taactattga 180
 ggtattgaag tggtgttag aaaatgggat gacgttgag actatggtaa aagatgtcga 240
 aacaacaat gacattgaca tgcaaaaggg tgaagcctca agagagttaa gggtagccat 300
 tggtgttcca aaagtttaaa gtggttaaga ttagaaagga aagggatgaa taataatag 359

<210> 28975
 <211> 437
 <212> DNA
 <213> Glycine max

<400> 28975

agtcctgcta atgtcgacct gcaagcgtgc tagctcggtt tatgagctcg actatgggag 60
 gatgtgggag ccagcataac tctgattctt acagtcctta ttactgtacc gatgtacatg 120

gtatctctcc ttacgtatac ggacctagag gagctaataca ttctctgtat acaaggagat 180
catctattga gaggacacct tgctgacagc tatgatcggt gtcactctta tgcaacgaat 240
gacccttcct catgagaata ggacgggctg gccttcaaaa cccaaggaag ataagggtaa 300
ggccatagag aaatacacc ctaagactag ttccaagaa aggactagca acattaaatg 360
cttcaaagt cttgggagag gtcacattgc ctctcaatgc cccacacaga aaaccatgat 420
catgaggggt caagaca 437

<210> 28976
<211> 336
<212> DNA
<213> Glycine max
<400> 28976

ggttctgcct aggcattgca tcgaaactac ttccttgatc ttgacttatg cttggatgac 60
gattgtatcc ttgattgctg tatatgtggt agatcccttg ccattgggtg ttgatgtatt 120
gaacttctcc ttgattgttg tagcattgac aatcatgttc tcaattatct gtatagcctc 180
tcttggaaac ttgagagaga ttttcccagc agctaaagca tcaagcataa gcttgctcag 240
agctttcaat cctctagaa acatgttgat ttggagagct tcatcaaac cagtgaagat 300
ttcctaaga gaacctctaa atctttccca agcttt 336

<210> 28977
<211> 235
<212> DNA
<213> Glycine max
<400> 28977

gctatgattt ttactacgcc tgcgatctct tgtgctggcc ttctgaagca ctgaacctat 60
ctactgtgag aagctagata tatctgagag agagcccca cataataaac aggtacaacg 120
tttcgttact tgaccacttt agtgtcacac ctccatggat accattacta tgcgcttttc 180
tactaccagc atggatagcc acatgatcaa cgtatgaagg accctctaata gattc 235

<210> 28978
<211> 366
<212> DNA
<213> Glycine max

<400> 28978

ggatcgaaat ctctctgttt caatgtcaat cttccttctt ttatgctgag gacaagaatg 60
ttccacatca taagtgaaac ttttggggga aattctgaaa atctggaaat cagttgaaaa 120
gctggtaatt tttccatcac tgtgcaatgt cttatgcaac acctcaccat ctttacacaa 180
ggtaatgcta ttggggggct gttgtgcaa accaacatta acatcatcca taggagcaga 240
aaatgggaac ccaatagtga aatttgtaac actttcatct gaggatttat gcagatcatt 300
tcccataact gttcagaag ataaatttgc caacttagta ctacattcaa cattgtctag 360
tttact 366

<210> 28979

<211> 262

<212> DNA

<213> Glycine max

<400> 28979

actgcagctc tcgtgacgag agtagagcaa tatgactacc tagaacatct gttacatggc 60
tgccagcaac atcttatcat tactttcttg acaaaggctc gcattttcac catgatcgca 120
ttaacatatc gtgagttcta ctcaagagag aattcaactg ctaagacagt aattacctta 180
tatttgtccc cgtggaattc atcaccatct cttgcattct tatcctgcat aagctgtagc 240
tccttttagct tggattcatt at 262

<210> 28980

<211> 278

<212> DNA

<213> Glycine max

<400> 28980

agacgctcgt tattgagcta cggctgctct cgagaggatc gaatggatcat tagttgtgga 60
acgaatgtgc tatgagggga cgtgactcgt ctatacgctc gaaattgagc gacggatgct 120
ctctagaggt gcgaatggtc ataggtatca acacggatgt ccgatacgtg gacgtagtag 180
atcggggacgc tcgaaatgga acagcggaag ctctggagac tatggaatgg taataacatt 240
ccactatgat gttcgacttg ggaacgtaat atatctag 278

<210> 28981

<211> 590
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28981

ccgccgcttg gattttgatg tcgcatgact attgtacagn gacacatata cgaatctctg 60
 anagcctcgg tgcatgccgt ctagcagtnc gatcgctgtc agcgcagtgt catgagctat 120
 agacatattt tcttcacttg gngactcata ctggcacatg aagctgagca cagaccatca 180
 ctactgaccg acacgtaggt ctcatataaa cagacacatt acataattat cacactctat 240
 gcactcgtag atgagcgtag atatgactac tctataaact agatgcatat tagtgagaca 300
 ctcgtagtga gcgtagcaca tgtgtatctg atataatacg gaacactact agagacttcg 360
 aactgtcctc ctcttgaca cggaaccaag agctactctc ctcccgatgt ccttgggatg 420
 aatcaggact aagaccatga gaccgctctt gtgttactta tatatgaccg gatcccttga 480
 cttggatgac actcctatgt gccaatgccg ttatctcagc tgtaacatac actggatgaa 540
 gccactatct cactgcagcc aatcaagatc ttgcgagtga ccatctatat 590

<210> 28982
 <211> 365
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 28982

tgaattagtt agcaagtatg acaagtcaca cggaagattc accaagcttc attcctcaca 60
 agtctagtgt ttctcttaat cccacatgtg tctcggttat aagtgtttca attacaacaa 120
 ctgaatagta aaattcccaa ctttgacat catctcagaa aatacaatca tacatacaca 180
 acatggatca ctatggactt tatcaggctt gtaacgtggc tgggctacaa agaattcatg 240
 cttttttctt ggattcaaag catggttatc aaactctcga gttaactcgc taactcttac 300
 aagtttatga gtccacttac cctctacgag ttgactcgtg tgtaaactct cttnttagta 360
 gactc 365

<210> 28983
 <211> 276
 <212> DNA

<213> Glycine max

<400> 28983

ctataaatac actcatgttg ttacacttat tcgttctttg atgattgaga gtactagtga 60
gacacatgat catagttgaa cattctatcc acctttttct ccttcaattc tcgactatcc 120
cattattatt tctttcacta cattgagaca atatcatcat gcttctgact caaggctcaa 180
atctaggggc taagggtgaat ctcccatatc ttattcgcta tagtatggag cactactcca 240
ccgatctgcc tatatccacc gcagcatcta cttggc 276

<210> 28984

<211> 327

<212> DNA

<213> Glycine max

<400> 28984

tcactgtacc aaaccctgtg tataacatct caaatcttgc attggattct attaatagata 60
cactaattgc ttgtattgag agattgtatg cttgattcgt tcgaattatg gtagataccc 120
ttgacattcg gccgatgatg tattcgaaca atctgctatg attcgtctcc gcgtaccgcg 180
ttgatgcaga tgatattctc gataccgaac gattttttaa accttgctac agaattagag 240
acagctgacc ggctctggaa aacatattgt acatactgat gcaactgatg cgctgtgtgc 300
gttgaacatg gaaagattat atctata 327

<210> 28985

<211> 353

<212> DNA

<213> Glycine max

<400> 28985

gctcattcac gaacggccac tagctcatca cggtcctatt gtcaccaatt acgccacct 60
acacactcta agaaccttat ataactaaat cataaacatg acctttctat gtgtatatgg 120
cacctgcac tcacacagac tcttagatct atcctgatac gtgcataact gaacacactt 180
gctctatcat gacacgcata catgctcatc ttgggtattct tcatatctat ctatacacac 240
acttcataaa taatgcagac tcttgacaca ggagcgtgct gcattagata ctctactttg 300
catcactagc cattcatcca cctaaagcct gatgctgata gcggtatata act 353

<210> 28986
 <211> 291
 <212> DNA
 <213> Glycine max
 <400> 28986
 cacaacaagt ttgacacatc cacaatgcgc gcataaaccc accatcccct gttgcccacc 60
 tactacatga tcataggctt gcagaacaat cccattatct cagctgtgtc tataacgaaa 120
 ggcgtcgaac gatcgaactt tcacaacgtc gcaaccacag aacggacaat caggccagac 180
 tatggcagcc aagctaacaa ggactaatgc agaaactctg ctcaacacat caaccgatat 240
 cacagcgttt ctcaactaaa gaccacagta acaattcctt cgatccaatt c 291

<210> 28987
 <211> 294
 <212> DNA
 <213> Glycine max
 <400> 28987
 cattcagctc tgagctgtga tctctcagc cgagctgggtg acatgccact tttgtattgt 60
 tgcccttctac taccgtgccc atatgactac tgcttacctg agatatccag ttgcttagct 120
 ccaactatgc tctgtgtcgg tgcggaaaact ggtctttcat atctacctga cgatcgtgtg 180
 caaaccttat atcatagacg agtccgagat cctctagccg actgggtcat tgtatcctct 240
 gcctactatc tatagtgtga tgaacttgaa catcatgatt tacgggtcacg agac 294

<210> 28988
 <211> 367
 <212> DNA
 <213> Glycine max
 <400> 28988
 tcttaaagca aaaatggcat aataacctcc tcccataaat acaaacatca atgtaaattt 60
 agagcaagct tatgcgccta tttccttaca aacgtttctt tgcacaagac atttaaccga 120
 aaaaatgcac ccatatacaa tcaaggcagc ttcggttacct agattattta cacgtacctc 180
 caaggtgtat ttgttactta catcacacac atctccttgg cttaaattcac atacatgcat 240
 actcaaagca ttttggggca ccaaaaattg cacatgtgca catcttggca tttctaatac 300

ctatacatat gcaaacttca tgatgaatct tgactatcta cacaataagg tgctacattt 360
catgctc 367

<210> 28989
<211> 523
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 28989

cgcccttggt ggttttgatg cgtttgcaag tcgnggccat atcagctctg accttgatg 60
actgtgaggc gccngcangt atgcttatct tttcaatacg gacacagact atgcagattg 120
agagctcgct cacattgttc gctatgctcg acaatgaacc atgacggaca acagtcagaa 180
acattgactc acttatacga catgacttga agagcatacg tacctactca ctatttggcc 240
ataaacttat tcattcctga agatgatgac atatcatcag aatggagact gaagatgctt 300
atgaccatga tactaaccat acccgttgat aaccgcttaa acttttgatg accatagtag 360
gtgcgaacat ctatagccct gaaatctact tgctcataca cgactacctc atgctctatg 420
tatcacacat gctttatgtg tgatgctcta agaacctcta tagaaagagg tgcggctgct 480
gttggtaaat gattgtgtac ttatggctta ttacgatgca cag 523

<210> 28990
<211> 127
<212> DNA
<213> Glycine max

<400> 28990

ctaattatag acatacctgc gataacttac taccctcatc taaaatatta acaccagcca 60
ctttcttggt ccactagatc cctactggat ggcacatcat tacctcgctc tattattgat 120
accaaac 127

<210> 28991
<211> 236
<212> DNA
<213> Glycine max

<400> 28991

aactttacca ttgacctcaa atccaatact ataataaaaa actatcgctg ttgccacct 60

acaactgagc tcacgtactc ccacgtagcc catatcctca tttctctgaa caacgggtcc 120
 ccatcaatcc taccaagctt tcacaacatc caagcaaaac aacattgaaa cagcacaagc 180
 tatcacagcc tatcaaaatg gaaccgtgcg ttaaattgtgt tcacacatca agcgga 236

<210> 28992
 <211> 313
 <212> DNA
 <213> Glycine max

<400> 28992

cacctctata atcgtgatgg ctgtctcaga gcgatagttc tctgatcaag aaacgagcat 60
 caactaatgt atcgcgtaa caaactaggg tgttctctgt tatggatata gccattggca 120
 aagtggcgcg atgaatagcc gtgctcgatc taatgtctac ccattacata gttggaactc 180
 aaagcacca ctagatctcc acagaaacct cacttccttt gtgttatctg aaagtccatc 240
 tcgctgaaag cctagtcogt tccgcaatgt catatcttag acctcactat atgcctcacc 300
 ttgagccatg cat 313

<210> 28993
 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 28993

cgagaaggag gaaaggtgat tggagatgcc acttcaagga gaagatgagt cgagaacaaa 60
 ctcaccacca tatgaagcca tggataagag cttgaaagta ggagaagatg agtggaggga 120
 gagggagaga agagggcacg aaatttatgc ctcaaattag gtcaaaacat taaagtctaa 180
 tttcttaaat gatcaaactt gaaaaaatgc acacacaagg cctctattta tagcctaagt 240
 gtcacacaaa attggaggca aatttgaatt tctattcaaa tttcacttga attagaattt 300
 gaatttgtgg atccaaattt ggagccaaaa ttntactaac tatgagtaat gaatttcagc 360
 tat 363

<210> 28994
 <211> 207
 <212> DNA

<213> Glycine max

<400> 28994

gacacctat agactacctg tctgcaagca agctatatat tttgttatta gaccacatca 60
cgagcacata ccttgctctc ttaagatgag ctaactgcta gctcgaggtc cacaacaatc 120
ttggatgagg gtttatgcga aacagacacc aaggtgatag gcgctatcct catgtaccag 180
gaacaattct aagtactcgc gggccac 207

<210> 28995

<211> 226

<212> DNA

<213> Glycine max

<400> 28995

ctatctgacg acgatgctta ttacacacta ctatgaatct ttgattgcag aggagctaaa 60
gataccataa ggacatgagc aggcgcgtga agcacttgat gatacgaatg gcacatgatg 120
agagatagac cttacaatga gcgcgcaaaa tcaatgcata aacttcgacc tagcgtatgg 180
ggaggaatca ttgacataga ccataaacag ctctgtgtcc ttaata 226

<210> 28996

<211> 384

<212> DNA

<213> Glycine max

<400> 28996

aacattgcga gaactccgta tatggcccca ccatagcctt tctgaccttc atctgtgaag 60
aagctcattg caggacctcc ccgacatata ctcacctaac cttacgctta ccgaaacggg 120
gagcatagca atatatttgt gactaagctt gagagggggg acatatgtta cagcgtagga 180
tctgatgttt atccatgcat aatgcaagga tctgctcatg cctgatgctg atatataccg 240
cctatcactc gcttgcatgt tcagcttcat actggacact agaaatccga tgacgagtcc 300
cccgactgta ctactacctg tgacccgcct atcgacttag agcgagaaat gtatctaacg 360
gcttgatatg agagactgag agat 384

<210> 28997

<211> 317

<212> DNA

<213> Glycine max

<400> 28997

tgaattcaaa aaaaaaaciaa aaattacaat tacaattttt taaaaaatatt gtaatatttt 60
atttttagctt gtgctcacgt actcccacgt agcccatatc ctcaattgtc tcagcacccg 120
gtacccatca atcctaccaa gcttccgctt tcaatgagct cttttttaag gttgagagaa 180
gaattgattt ggtctatgga ggtggtagcg tgggtttgat ggggtctagtt tctcaggcgg 240
ttcatgatgg tgggcgccat gttctggggg ttgacctctc tctctctctc tgtatctgtc 300
tctctatcct aatctca 317

<210> 28998

<211> 154

<212> DNA

<213> Glycine max

<400> 28998

ccacactttg acgtagggat ccagtgtgtc cgatcatgag tatccgatgt ctgaacttgc 60
ataccattcg actacagaat ccgactgttg actatcgata agaagaatcc atactgacgc 120
agcttcttgc aattttcgat agaagcttca tttc 154

<210> 28999

<211> 321

<212> DNA

<213> Glycine max

<400> 28999

catccaacta tagagtatga tgcagttacc gaaaaaagggt cttcatcatg tagtaatagg 60
aacatattat gcagatgatt tggtataaga agtgacttat gtgtgcaaag gtatggctaa 120
actcattat aacatacata tataaagaat tgaatagtca ctaaggatgt atttaacaaa 180
tcacaagttt caacaatccc gtttaagata acacactaag gaaaaaaaaa gggattagtc 240
aacacatgta ttatgggtata gaagacatta aggatgcaac acacattaca agcatcattc 300
aatctcattt aatcatataa a 321

<210> 29000

<211> 220

<212> DNA

<213> Glycine max

<400> 29000

agcgtttatac tttttcatac gacaataacg ttgtagtcgg atgaccatat cgagtagctt 60
catatatccg actctcgtat cgatatacat acgctctgaa ctagtatata cgactctaac 120
gttatagtcg gatgaacgag ctgataactt aagatatcaa gaccaccga cttgatatat 180
tacgctacga gatcatacat acgacaataa ctgttttgtc 220

<210> 29001

<211> 235

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29001

ctaacaggcc aacttactac agacgctccc aagagactca ccataacgat gcacanacta 60
caatggccat tacttttcaa tcgaatgatc gattcaaaga cctaactcat ctaaacactc 120
gaaacttaac aatggatgct ctctagaaat gcgagtggtc gtactttatc acaccgatga 180
ccgateccat gacatatcat atgtagacgc tcaaagatga catcggatac tcctg 235

<210> 29002

<211> 244

<212> DNA

<213> Glycine max

<400> 29002

gagagcacia atccgagact tatccaagta gtcttttcaa tacgattagc ttattcacta 60
gcctttcatt ttaacttgta ttgacctta ttacagcaac gcacactttc ttgattgct 120
atgtgggtcta cctcttcttt tgtatttttt ttatttggtc ttaacacaac ttattcggtg 180
tgtgtgctga tgtgcttggc cttccactat acatcgcgga taactcccc aaatttatgg 240
aaaa 244

<210> 29003

<211> 233

<212> DNA

<213> Glycine max

<400> 29003

tctatcgaga tgaattacac aactggatt gacaagtccc tctggcgatg cgccttccat 60
cattcctcac cagtctagag ccactcttaa tcccacatgt gtctaggcta taagctgttg 120
ctaataccac aacgagaata agacaattat gccaaatatg cacatcatta tgataagatc 180
gtatgtacat tcaactacatg gatcgacatt gacttgagca cgctgggtac atg 233

<210> 29004
<211> 561
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29004

ctcacctcca cagactcgtc tattntacta ttgcaattct tataactatgt catattcacg 60
tatcatacat tctattgggt ctcanagtac atactacacc tatcagacac ttcactctcc 120
tcacgtcgtt tctctctatc taggtcactt actctatcaa acctaatctt acttttccac 180
ccagacgann nccccagta acactatgta gcttgcaccc tgctctatga caatctgaat 240
agacaattag agttaaggat gtacctttta gataccataa accaacattg gttgtggcct 300
tatggcactt aatgtatctt ctttcatctg aaaacatgag aattcacacc ataagccgaa 360
aatcttcaca ctagccaaca ataagcataa tatctgggtct acttgcagtt aagtaaagaa 420
gtgaaccact cctacctcaa tatcttgact tatcaaattg aattaccttt ctcatctcat 480
tcacaaatcg tggatgatgc tcattgagat gatgcttttt tgcactttcc ctgctgcata 540
cttactgagc actattcagt n 561

<210> 29005
<211> 227
<212> DNA
<213> Glycine max

<400> 29005

tttttctata tgatcgtgct acgctgtgaa tcgacactac gtacatgctc ttgactactg 60
ctgagatgag gatagggtag acgccttccg ctatggagta agccaccttg caatgagctg 120
ctgctgcatt aatcgtcttc tatcataggc tagcagatga tgctcatgtg ctcgattata 180
tgtatagact gtctgagcac catgttagag gtattcccca cggttag 227

<210> 29006
 <211> 363
 <212> DNA
 <213> Glycine max

<400> 29006

tatgatcaaa agagtattcc ttatgaaata tatcttgttt cttatcagca aaagtcctaa 60
 tcatagcttg tgtccaatta cttgtttcgt tttgtttcct accatgatga tgattagtga 120
 atgacacgtg tctaattcgt ttggttttca atgtgttttt tttaatcgct aagagagtaa 180
 agggatttgg gaatcccttg tatctcatat tatataagat tttgtttgcc cgaaaaacaa 240
 aacaaaaagg atcaaaacta tatgttttga catacacaat gctcatattg aagctgtcat 300
 atgacacaca taatttagtg tttgattata aaattaactg acataaatta attttattac 360
 acg 363

<210> 29007
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 29007

cgcggttct tagctcgaat gcgccccata gagagctggg cgtcaatata gtggtcgctg 60
 atttctgtct gtgatactga tacaatccca aagccactca acataatagc cttgataata 120
 aaccacattt cctgagctgc ctatatagca aacaagcccg cacaaatcgc gctatgctca 180
 aagtagctta tctaaatagg aaacgtctca tgatgacgta attaatgaat acgcagatgc 240
 gagagcttcc tccctgtaat ggacactgtc agatctaata agtccgatgc agcatattat 300
 gtccgctctc gacacccttc aacacgctct t 331

<210> 29008
 <211> 229
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29008

aaaccaacaa ttaatatattg ccgatataaa aaaagagcat cgctaagaat aagagatcac 60
 aaacaacat actatctatg caattaaggc agaacacat attacaagca tacacagaat 120

tatatgggtc atattgaatg gatctcgagt aggctgcagg tcacaccacc agaacttgca 180
actgtctaca gcaatctact ctctgtggc ttgtctntga taactagca 229

<210> 29009
<211> 502
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29009

cgcccttggt tgtgtcgatg acatgacgcg gncgagtcga ttctcggacc tcgcgcgggc 60
ctatatatgt cgatctgcag cgcggtgctaa tcctttctgt atgacgctct atcgacatga 120
agtcactcac tggtttgaca aggcaactctg gcgatgcaca tagcatcggt actcacacag 180
tctagagcca ctcttaatcc cacatgtggt tatgtataa gctgttcgct aatagccaca 240
acgagaataa gacaattagg cctacatttg tacattatct cgaaaacatc gtttgtacat 300
tcacgacatg gatcgacatt gacatgagca cgctgggaac acgacggaga cactgagaca 360
tgatgcatat gggtcgaagt cagagcctgg agatgaagct cacagactac tctactagt 420
ttacttggca aaagtacact atcgctttag caaacggcta ctgctgacga actctatctt 480
gacgacctta taagctacat gg 502

<210> 29010
<211> 522
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29010

cctccctcct ctgcacatt actacttaat attaaacttta ctcatataca ctctacactn 60
actaatcgtg catgtacatt caatgtgtat aatctcaact tcatatacac tatcacatcg 120
acatcattcc ttactatctc tcatcacatg ccaccgctgc actnnnnccct ggctctagca 180
cgagattctc tatagtctcc gacacattta tttgctttca caaggaatag gttatagtct 240
tcacaatag ccaaacacac gtgctacatg tgggagtgat atcaaattcc tagcattatt 300
agaaacacat caatttactc tccatattat gtacatgata taccacttgc tctacagaaa 360
taggtgccac tttctcacat catatgttac aatgacagat accacataga tacgtgaanc 420

attagacatg gctacgctct gatacttctt tccagatact gcatatatgc ccagcagtct 480
atagccacct tatctcattg ataacttcgg atcataatct cg 522

<210> 29011
<211> 304
<212> DNA
<213> Glycine max

<400> 29011

tgcactctgt gatggacgcg cgatgtacct caacatgtta catacatcta ccttgcaccc 60
attaacgcgc catccctgt agtacacata tatatgtgca gacgtactac tacattacgg 120
actctacagt tttatgagca cttggacgcc atcaatccga ccaaactgat ccagcatcca 180
tgccatctgc atgatcacgc cacacctatt gacacccgat ctcaatggcg cttatgccta 240
atctctgttc agccctttta ccgctatccc atgaattgtc gatgcttgac ctgagagcat 300
cacc 304

<210> 29012
<211> 560
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29012

cgctctcgcg ctctcctcaa cttgactaac ttctcantaa gttgctgaaa cttaacttat 60
tcactngtat antattntga natatactac atgtttttnc actctaatat cgnctctttg 120
atattcttga taccacgcg actgatatat actgtcacca ttatccatct ntcgttattg 180
ataccgaata tattccatat nnnnnnnnaa ccgcactga cacgttaact tgaacgaatc 240
tttcatacta gatacaagta attcaccacg ttatatggtc taaaataaga cttgcctgcc 300
acatctgaca ttggagcttt cgttcaatgg catgacataa agccatggca tccaactttg 360
cagactctct aattgtaata atatatggtt ttttaataag gtttgatcat accacctcaa 420
tacacttatt gatatcatat ttatcacctt tttatatatg cttgtgtaat cgatctatag 480
attagtecta ttttcataga aactattct atctttctcc gatttctctt tgtattgtac 540
ctattgaatc gacaatgtct 560

<210> 29013
 <211> 270
 <212> DNA
 <213> Glycine max

<400> 29013

aaatgactga ggatgagtcg tctatgaatg tgctaattct ttgatgacat taagggtgcaa 60
 ctatcacctg accatatgat acccttgggg cgagctcgta gaacgataag agcagctatg 120
 tgcaaggata cagtagggca tactattatg ccgcattata cgtgcactga ctaaagaagg 180
 cattcgctat gatcttactt gaatggactc acacacgatg cctgtatgtg taccctgtgt 240
 gagccacca gttggacgct catggaagga 270

<210> 29014
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 29014

aacctctatg accatcaggt actacaacga actaaatata tcacatcatg ctccgagaga 60
 ggtaattgat gtctatacag atcatctttg aacctgcact gcctgctctg tgcacttatt 120
 ataccgacct ataataacta ggacttccta ctgtgcgcac gaaatcaaca catacactcc 180
 tttctatgtc ctggtgatga ttccgtgact aagacaatga gcaagctctt ccgtaccata 240
 tatatgaccg tatcc 255

<210> 29015
 <211> 314
 <212> DNA
 <213> Glycine max

<400> 29015

tgacctttct agctacaggt acaatcccac gtggacgaat catcccaacc ttacatggtt 60
 gagtcttcca caatagcagc aacaacaaca gtcgctactg caatagccct ataaatagca 120
 tatagctgag gcttcctccg caccttcctt tgaagaactt gtgaggaaaa tgactatgca 180
 atacatgcag cttcaacaag agaccaaagc ctccattcat agcttaacta atcaaatggg 240
 acaattgcct acacagttaa atcaacaaca ttctacaat cctgactgac taccttctcc 300

atctgtccag aatc

314

<210> 29016
<211> 410
<212> DNA
<213> Glycine max

<400> 29016

gcggaaagtt tacactccca tgaggacgtc atgcctgaga ccatgatata ccacaggact 60
tttatatcac tactttactc aaattctatt gcggatagat cattagacgc agtgaagctc 120
ttgaatcaat tagaaaatca ccatgatgaa gatacaatgc tagactccat tctcaccttt 180
cgggcattca taggggtactt attcaagggt acaagacaac tagtagtgga ttaaatgagc 240
tgctacactt atttatatggg tctaagttct atactatctc acgaagggtga acagaatgat 300
gtgcatgtcg aactcggtcg atcataacct ttatgaacat ctttctacac tattatgaag 360
ctagatgtta acaaagattt tgagcaacga agttcctaac taacgtcact 410

<210> 29017
<211> 342
<212> DNA
<213> Glycine max

<400> 29017

ttgaactcgt ttgtaaactg gtcaaaataa tttatataag ctacgtacta aagcgacttt 60
tcaccaccct tcttgctttg tttagatgga agagctttat tgatatccct ctgttttctca 120
atgactcact cggttaattat acctatcata taagaaattg acaccacatg ttttaattaaa 180
ttcacgtaat aagagagaat atattgaaaa gagagagcaa gagagtattt tgatatacca 240
tcattttctca tgcaggaaca aaattttaaa ggtgcaggaa gttatactcc cgtgcatgac 300
actcttctcc tccagagtca agactaataa caatcttgga tt 342

<210> 29018
<211> 347
<212> DNA
<213> Glycine max

<400> 29018

gatccacata ccatctcctt tagctatata tcaccgttct tgagtacgag caagctatga 60

[illegible]

<400> 29019

<400> 29020

<210>	29021
<211>	246
<212>	DNA
<213>	Glycine max

<223> unsure at all n locations
 <400> 29021

aaccacagag tggttcctag tagatatagc ttaggcgagt agcgagacct tgtagctggc 60
 atgtgacgtt ataacaacca cacacactct cgatgaatgc tgacccatcc ccgtcatagt 120
 cggtaatga gatactgtga tgtaacacaa cttatgagtt gcgggcgctg aagtgatttg 180
 ccgatccact actcatcagc gatgacgctc gcagaggctg ggcanatgtg aatgaagcgt 240
 gatgat 246

<210> 29022
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 29022

gctgaaattg agaatgaggt aaatttggag caaactctca cctcacacaa gtctataaca 60
 tcaatttata cttgctcaaa ctggatttac acctaaaatt ccaccgaatc aaaatgtgac 120
 tcctcaacac ccaattttac cctagaaatg gctctttggt cactttgggtc atttggtttt 180
 ctctcttgta cagcccaagc tttctcataa gtccctaaatg acatttcaag ctatgattaa 240
 ctcaatttaa ccttcaaagc ccactacatc cagattatgg ctttcaactt tcacaacctc 300
 actatatttc actgataaca ccatattctc actttctaac cctatggtaa ctctaccct 359

<210> 29023
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29023

acccttgtg actagcctat ctagattgct gctgcttcc tctgagactg gactgacgat 60
 caggctttct ggggttccct gaagatccca cacaccctcc tatgtcgcgc acttgctgat 120
 cataccgatc cctctaccac ctgacaagag gaatgccttc gtttaatccc gataccttgc 180
 acccgcgcca tcctttatca cgccgagtgg tgctctcgca gccacaccat gatgtgtacc 240
 gaccgtacat atttattcct gcttatcaag angaccatcc tcaactcctcc aataccacac 300
 atgacctcgg ctccacgaca gatgccgtac ttttgcactc atccattgcg ggtctcttca 360

ttctacctat acaga

375

<210> 29024
<211> 310
<212> DNA
<213> Glycine max

<400> 29024

atgacgctct ccagcaacag gtacaatgcc ggatggagga atcatcccaa ccttagatgg 60
tcgaatcctt cacaacagca acagcaacaa cgaccttatt tacaaaatgt tgctggctta 120
agcagaccat actttcctcc accaatccaa cagcaacaac aacaacagca atagccccat 180
aaacaacaga cagttgaggg cactatgcaa ccttcattg aagaacttgt gaggcgaatg 240
actatgccaa acatgtagct tcaactagag accagagcct ccatatatag cttaactaat 300
tagatgggac 310

<210> 29025
<211> 366
<212> DNA
<213> Glycine max

<400> 29025

tgcggtgct tcttttagatg tgaccttctt ttgctgctca ttagccagc ttgatttacc 60
tgtgcgttgc gcatttatct tcaggagtac tgagcattgc accttccgaa gactaggatt 120
catcatagtg ctgataagag catattatgc agatgatgag ccattgatga gactgatgct 180
agccattgga atggctataa acactacatg agataaggga ttggggaata ccgtgaatgt 240
tatatgcata tggaacttag agagaccgtt agctaaacac ttgggagcat cactttgtgt 300
tatgacgtgc gcaatgctca tagaggcgct gtgttatgac tcacatgata gaacgaatga 360
gtatca 366

<210> 29026
<211> 307
<212> DNA
<213> Glycine max

<400> 29026

catttacttt ccgtaccccc ttattacgtg ctccaatcat ttatttaaga catttctctc 60

ctaatacaaac ttatcagcca cattcctcta tcatattgat gtctttttatt aattaaaatc 120
catttgattc acatcccacc catcggaat tccccctcct cattggaaat caaaacacac 180
gtataataat aatatcatca taaaaaacat accttttagt aaaatgaaac gaaaaaaatc 240
aatcgcacct tctctctttg ggatttctca ttcttaatca aattgactaa taactaaagt 300
gaaacta 307

<210> 29027
<211> 145
<212> DNA
<213> Glycine max

<400> 29027

acatatgcgt aacattctca caagctttac atcgctgac tcacgaccc accgagatat 60
ctatttgccg atgcaatata tgccttctaa tactggccac cctgttcggg aaggggaccc 120
tacggactct ggcgagacac ataga 145

<210> 29028
<211> 322
<212> DNA
<213> Glycine max

<400> 29028

cttcataacg gtattgacat tttcaaagg gttttaagtt tttctaaaag ctatcactct 60
tttgaatggt cttcttgacc agacatggag agtctataat agcaaggctt tgtcttgcac 120
ttcaagcatc ttgaattctt ttccaatcaa tcctttacaa gacatgactc tctttgaaca 180
tattcttctt ctttgtagca acagctttat gaagatatct ggatatacaa accttgaaaa 240
cgtgtgctag tcatgttttc attcaattct ccctatgcac aaaagaattc gacaaggact 300
aaccgcctca attcttttgt gt 322

<210> 29029
<211> 296
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29029

tattgttccc tggctttntg tggtttcatg aaactcgtca catgtgagtt catgattgat 60

ccgtatgttt aagatacacg gtgctacttg cctgattata ataagataat tgcattgatat 120
aatcgtcgtt gagacattaa acatatgaaa aacctggggc cgtacgggat attcggatga 180
acttactgga atcgtaggga tcgacttcat ctaactcata cggaacagag cctgccatct 240
gactcattcg ggtcaagatg tataaacgac attttctctc attgacctcg tatgtt 296

<210> 29030
<211> 363
<212> DNA
<213> Glycine max

<400> 29030

agtactaagt atttattacc tatacttaac agaaaatact tataacacta caaaataacc 60
ataaattgga agagtttgat acgatttaca caagttttat acataaaagt tagtcgtatt 120
caccgactaa caggcacccc atagaactgg cagagactcg tgatcaaggc cgaaaacccc 180
agtgtcttat tggacttttt cgggtccact ggatgtcgaa gaggtgcat cccttgaaat 240
cggtaaatgg catccgagat tagttgggcc acatgaatac taacttgagt caagatggcg 300
tagaccagct ggcacttcgg caagggaata ttaaaattat gatcgtggg gaggatgtta 360
ctg 363

<210> 29031
<211> 185
<212> DNA
<213> Glycine max

<400> 29031

ggtataggtg gtagtattga cagttggccg aacacagata ctgcaggttg catgaaattc 60
ataggatata catgatcatt aaaacattga gatcacaccg taacaagaaa cacttaaaat 120
tcgtctgtcc ataatacagt gccagttttt catatcctat gttccaatga atgcatacca 180
catac 185

<210> 29032
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 29032

tcaccgcttt aggagcgctg tacaccagca gcgcttcgag gccatcaagg gatggtcggt 60
tctccaggag cgacgcgtcc agctcaggga cgacgagtat actgatttcc aggaggaaat 120
agggcgccgg cgggtggcat cactgggttac tcccatggcc aagttcgatc cagaaatagt 180
ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca tgagatcctg 240
ngtaaggggt cagtggatcc cgtttgatgc cgacgctatc ggccagctcc tgggatatcc 300
gttgggtgtg gaagagggcc aggaatgtga gtatggccag aggaggaacc ggtctgatgg 360

<210> 29033

<211> 296

<212> DNA

<213> Glycine max

<400> 29033

gatgactagg agtgcacgtg aatttgcttc tttgactgaa ggaatgagca cgcttggacg 60
agatacctaa taatttatgt gtaatacggga tctcattcgc cgtgagatga gcgatacatg 120
caggaacaca gaatcaagct tctagctcct tggaagtgcg agattaatat ctgcctgtta 180
tggaatggcg actctgcttt taacagatct agcctagtga actattataa ctgtatgatt 240
aatagacacc ttgtcgatac tgatagggtg tcgatactct acaccttatt atgata 296

<210> 29034

<211> 329

<212> DNA

<213> Glycine max

<400> 29034

agaaaccttt atgatgggca ttttgatgta caattacaat agtcattttg atgtttgctg 60
agaatgaatc catacttgat gaaatctatt aatgaagatc ggatcgatat cccattctaa 120
agtagcatat ctttattaga cttaacactt cttcacaaat ccaagcattt tgaagttgat 180
tacttcagaa agactaagag aaagtttatt tgttggtgtg ttagtgtttt gccagcgtt 240
agactgagtg atttacttca atattggatt ttgatgcttc tcatcagtgc ttacatgga 300
caatttcac tttcaacaga attgcatct 329

<210> 29035

<211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29035

ttgctcgttc attcgtgcca tcagcttgac ctgggatacct catagtctac ctgcagcttg 60
 caagccttat actgtatttc aatgcgcggc ctagtcttat agcatatcat tattcatagt 120
 cctctatgta attactgctg acccgtgcac gaggtttgat catcactcga tccacactaa 180
 tcctcagacg tggagggagt tatgacccta ctctctatta taaaccttga gcaataactt 240
 tacataccat atacattatg aatcctttgc ttaaacaatag ctgcgacctt tcaccactca 300
 tgacccatcg tactcttata acccatctgt cagatcacgc aagaattccg cacttccatc 360
 ttcatttcat atcgcatccc tgaacaacca ttgcaacag ttatgctaca ttctatccta 420
 taagcgatgt agtccatgc cgtggataaa ccaccctgcg gcgcn 465

<210> 29036
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 29036

ttcatgaaaa tacaaaaaaa agtccctact acaaagacta cccaaaatgc cctcaaatac 60
 aaggctaaaa ccctatacta caagaatggc caaaatacaa ggcccaaaag aaggaaaaac 120
 ctattctaat atttacatag ataagcgggc tcatacttag cccatgggcc caaaatctac 180
 cctaattgctc atgagaacct tacggccttc ccttggtatct ctggccaat atactcggag 240
 tcttctatcc aattccctaa cgaggtagga ttacatcact atgcatgcat caactttgaa 300
 taacacccac acggaaatgc tcctgcgtta ctcaaatttc tcaatttcag acacgttgat 360

<210> 29037
 <211> 183
 <212> DNA
 <213> Glycine max

<400> 29037

gcaactcgct cacaccgaac atgatgctgg aaggccaccc aatcaacatt tgtcaactta 60
 tcactctcaa attccccaga catagctatc tggacatttt gagcattaac aatgacttct 120

tgtcacaccc agactggcta ctattacctt catgacattt acacctttga tgaacatact 180
cta 183

<210> 29038
<211> 348
<212> DNA
<213> Glycine max

<400> 29038

aaagtgccta atgaatcctc ccgtgcttat gccaccagta cctggaaggc ctctcatttt 60
gtacatgaca atcttggacg agtcgatggg gtgtatgctg gggcaacatg acgaatccgg 120
gaagaaagag cgcgctgttt actacctaag taagaagttc acgacctgtg agatgaatta 180
ttccttgctc gaaaaaacgt gttgtgcttt agtatgggca tcccatcgcc taaggcagta 240
catgctgagc catactacct agttgatatc caaaatggac ccggttaagt acatctttga 300
aaagccagct ctacggggac gaatcgcccg gtggcaagtc ctgctatc 348

<210> 29039
<211> 272
<212> DNA
<213> Glycine max

<400> 29039

gtactataat gacttatcgg cgcacattaa ttgtatcata tacgatagtc tatatattaa 60
tatatacata tatgatatat catgccatta gatatgatga tttaaactct atctaattac 120
atatcatcta ccacatgttt agttagattg acgtattaca tagagaatgt gttgataaga 180
tatagcatga tagtatctcg atataccatc attactcatg catgatcgaa attgatacgt 240
gcatgaatta ttctcctgtc ttgactatct tc 272

<210> 29040
<211> 364
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29040

tcaaagggtgc tattttggga agacgggtgt aaggatgatg gggtttcggt gatggaaaag 60

tacccaagct tgtaccacat ttctcaatag caacatcaat atatccacga gcaaggggag 120
 acatcaggta cagggttgga atgacagttc cagtggagat tatttttttg aggggtgaaat 180
 agacatgact gcaaatttat gaaggatata gaagggtctga tcgtccaact gcagcgacta 240
 gacacctaga attgggagcg agattcaagt gggggatata caattgggaa tgcttatatg 300
 atgcttgata gggattcgac aaatganaat cacgatggag agtttactac attatggaag 360
 ttaa 364

<210> 29041
 <211> 193
 <212> DNA
 <213> Glycine max

<400> 29041

ctgtaagtag gcggtgacga gaagggatga aatgatcatc cctcctgaat gtgatgaaat 60
 cactagtaat tatagactat aattgaatcc ctgattacaa tccacaccga tgcgctaccg 120
 attcacatcc gtgggtgaac gcgcgaagat tcgccaccat tcatagtctg cctaccctcg 180
 ctctttgcac ctt 193

<210> 29042
 <211> 333
 <212> DNA
 <213> Glycine max

<400> 29042

gattgcctat ataggttgat ttagcataaa attgcctata tatatatata ttattgagaa 60
 ttaatagcct ctgatatgta aacatttctt ttccctgccg ttgttcaggg cgcgattgag 120
 acagcaacat tagatactcg cattaaagtg tctaattccag aggatccaga gccatcaatg 180
 aaactttatg tggaaaacca ggcagaccct gcaatgcgat tagtctctga gatgatgata 240
 ctttgcggtg aagctgttgc cacatttgga tctcggaatg acattccttt accatacagg 300
 ggacagcccc aatcagatat gaatgtttct gaa 333

<210> 29043
 <211> 272
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29043

ttgctgaaac ccgttactca ctcatcatg atttcagatt ctctgagga tacgtgagga 60
 gactcgttga ttgcncgaa cttcattaac gcctgcagga tacatctttg actatcttgt 120
 caacgcatag atggattgcc gcagtttgcc gaaagactct acaacgcatt ggctgactcc 180
 agagcacata ctgtctggag cttgagctcc ataacgcatt ggctgactcg actacgcact 240
 tgcagactca tatctgctga cttgactaca ca 272

<210> 29044
 <211> 125
 <212> DNA
 <213> Glycine max

<400> 29044

tccccagcct tcccttgatg aacttgcat gaaaatgact attcggaaca tgcactgtca 60
 acaagagacc tcagccttca ttcttagctt aattaatcct atgggacact tgtctgcaca 120
 gtcaa 125

<210> 29045
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 29045

attcattaac gcattcattg agcattcgta gccatttcg acgcgcgcta actatctacc 60
 tatatattat atcgccgaac atctttotta gacacatacc cactaatcat tacacatgta 120
 gaaaccgtta cttcacgtga taatgaatcc cgccgatcg gtcatgccga aaccacattg 180
 tagatcatta tacaggcttc acaatgatgt gccattgaa accctacctt ttagtgtatt 240
 gacgtgtgac aacttaatca gacgggccat tatgtgatac ctcttacgat gaatatctga 300
 ctatatgcat tactga 316

<210> 29046
 <211> 367
 <212> DNA
 <213> Glycine max

<400> 29046

cctctatagc acacactgcg ggcattgcatt ctctatgttt ctctgattaa ttcggcctgt 60
 gtagctctgc attgcagtgc cgagtttgcc caatgggttg gacgtgctcc tcagcgtag 120
 tgatgatctt gaatggtctt cttgaccatg acctggagac tccattacaa caacgatcat 180
 ctttgcatth catgcctgct gacattttga tgatggagct ctttacgcac gcttacattc 240
 tttgagcgac cgacctattc tgtgcaccat catactgtat gaagtgcac tggaatgaca 300
 aatccttacc aaccaccctt agtcacttta tctacattt ctgcctttgc ccatgggact 360
 actccaa 367

<210> 29047
 <211> 205
 <212> DNA
 <213> Glycine max

<400> 29047
 ccatcacacc ttaaccgagt agctgtgact atcttcatca cattgactat cccatatgga 60
 cgactcatcc acatcctaga ctgactactc ttctaaacac ctgtccatac aacaatctat 120
 acctctatat gtttgtgaca tcaccagacc atactttctc ttgctcaaac cagctactca 180
 aacttcaact tgagttttcc caaat 205

<210> 29048
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 29048
 ctcttgcgac tccgatggaa gtctgttttc atgtcccatc atcgataatc cgacatgatg 60
 tgccttccgt cagccagaga aagtactctt gtctgatgct cagctgacaa cgtgaccgta 120
 cttgatgaaa tctatgattg agtaactggt cgtagacca ttcttctat gcagctcgcc 180
 attagactta tgactttctc acttctgcac atctagtac tgagatcact ttagatgcag 240
 taatagaagg atcatcatgc cttgtgcact cgtatgagcc agcgtcatac gcgccgattg 300
 acttcaatca tgtatgctga tact 324

<210> 29049
 <211> 467

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29049

nttgattcga tgacctcgac aggaccatat cagctctcga cctcgcgatc ctatgagccg 60
accgacagct gcacgctttt ctattttctc tccgcagtac cacactgctg gctatacgat 120
cgcatatctc cagcatcgct tacacgccgt ccaaggatga gtccatactt caatagcgag 180
gcgtgctcat taaggaccac tagtatactg atacctacct atgagaatcg gcgaccgcag 240
agggcatctc ttggaactac acatggccaa cttcgatcca tgaacagtcc ttgagctaca 300
tgccttagca ttgccctccc tatatggcat gccctaccta agactctaga gactgggtcg 360
atgatacctc tgaatatcga tactatcgctg ccttactgaa tcttcgnaaa catgtgatac 420
gtgacgaatg gaacatgccc tagatgttcg gccacagttc atccgac 467

<210> 29050
<211> 97
<212> DNA
<213> Glycine max

<400> 29050

attgaagtat gagcacttct gcttgaaaag tgaccatgct agtcccctat tactcactat 60
catctgaact tgtgtccaga gctagttcta ctttacc 97

<210> 29051
<211> 309
<212> DNA
<213> Glycine max

<400> 29051

acgtgataca tgcattcggt agatataggc tactgataat aggaatgcct atctattgtc 60
gacttaacat aaatgcgcct atgaagatat atattattga tacttaactg cccatgcttg 120
cacctctgct gactctcatg ccgttgatca tgacgcgcac gagacgctaa gcctcaagac 180
tcattatcta tattctaata cacacgatgc ataccatct gcgactctat atgtggaagc 240
ctacacccac cctgctttgc gatgagccgc taagatgatg atacttcgcc gtgaaggtgt 300
agacacatt 309

<210> 29052
 <211> 519
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29052

nctggangtt ggtagactca tttctgagac acatatacga gtctctcgaa ccttggtgat 60
 ctctctgaga gctctacact gcgaaggcat gcaaaactct agtagtgta gatcctatta 120
 ccagtcacta gaatataccta ctagcaactc tgacagcagt atgacgagtt gttaagacaa 180
 tggaccttca tccatatacc gggtcatgat caacgtctta ccttgactgt gactcgatgg 240
 caaagctcat ttacatatga agctatgtag aatatctttg atcatgataa ctattcatct 300
 tagactacaa gtggtgatga aagtgaccac tagaacctcg tgatgtgctc ttagtgcaag 360
 tectatacat tattatgtat ataagctatc tttctatata ctatcgacca attggacact 420
 gatcaaactc attccttctt gcacgagatg tagtgatcat gtcgctatga tatgaaacct 480
 agccttgtaa tataatcacc tgggtgtttt ctaactatc 519

<210> 29053
 <211> 304
 <212> DNA
 <213> Glycine max

<400> 29053

ctcctcgaca aaatttgaga tcatgcttaa ataagtgact actactcgag cttagcccg 60
 ttgccctcac tttcaacggt ttaacgctct tctacgagaa tgggcttaat acatgggtctt 120
 ctcgattgac aaacgtactg taataggtac acatatacagg atgctcctac tttgaccatg 180
 catgcacaat ttatccttat gctcaagaca tccttacgct cttctgttga atgtctggct 240
 caatgaactg ggagtcttgt atccaagacc gtctcgatga gcgagtacat ctctacgctt 300
 gcat 304

<210> 29054
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 29054

[illegible]

<400> 29055

<210>	29056
<211>	504
<212>	DNA
<213>	Glycine max

gcccttgatt	tcgtgccttg	ctgcacgagc	aaatagagct	ctgacctggc	gatgcgctat	60
agctgacctg	caagcatggt	ggcttggttag	ctntagcgat	gaccttactc	tccaagcatt	120
gatggcgctac	tagctttctcc	catcatatct	atactcaatg	agaatgggtcc	agcagcgtca	180
acgcgcacaa	taatactaca	gactgaactc	ttgtagaaaa	cactttaacc	gaatcactgt	240
ttatcatata	cggagctcag	cacctccagc	ggctagagac	tgtgacgcac	cgccactgcc	300
gttacagtac	ttacatgtca	caccctatcc	ttgcttaatt	caccttctctg	catactcgag	360

gcagctatga ggcattcatta ggtgctcata gtgcacagag tgagcattgc ttatacctat 420
atctagctca cctctctgat gactcttgac tatatacaca gtagggggcc acttgctact 480
gctcgatgaa tacatttctg cttt. 504

<210> 29057
<211> 301
<212> DNA
<213> Glycine max

<400> 29057

ctgctcgat gctatctgtg acctatgtag ggactactcc atactctgtg agtcattggc 60
aacctctttg accttggtt aatgccgaac agcatcttat atgacctgct ctttgacgtg 120
actactctgt tacacaagtg gcctcactt tcttaatgaa aggagttgaa gttggataca 180
ctctcatatg cagcactaac acatatctct ctgtctgatt tacattgcgt ccttgatact 240
agaactactg gtaaaacaac tcgaaatcca tcgtttatgt gtggccatgc gcaataataa 300
a 301

<210> 29058
<211> 342
<212> DNA
<213> Glycine max

<400> 29058

tttccctcgt tggggctgtt gtacaaacat tttcccagat tagggctctt tccaaagtat 60
ttcccacggg gtgctgtttt tgcacgtacc cagcatgcaa gtcgcaattg ggagtgcaca 120
cttcatgcat ggctgacatg tggcgaacgc tggagggacg cgccagtact gttggcgact 180
tcatgcatgg ctgacacgtg gcgaacggtg gagggacgcg ccaacctcat tggcgatttc 240
agcacggtga cgccccagtg ctgttggagc tttgtgcttg ctgtgtaaag tcccgtcaag 300
cagtgtatca gtatcctagg tgcagctgca gaagctagct ct 342

<210> 29059
<211> 410
<212> DNA
<213> Glycine max

<400> 29059

tgcggctgcg gctttatgat tgacgcactc cctcgtagca tggatcggat ggcgagacta 60
 cagatgccac tctacagcat ccgactcctt atcatcagat gatgagcttt cgtcaggacc 120
 acgaatccat cactctttat ctccgatagg ctggacttga tgctcctacc ctgccccctt 180
 cgcaacctta gaagctgcac gctctctacc aaagaattat gcatagtacg actactccag 240
 gatggccgca ttagtcagcc ttgtcttaac aacattggaa gcatcttcat gttcatctcc 300
 ctatacgtca cctagccctc tatgagagca ctctattact aggcgctgtc attgtgtctac 360
 atgatggact aattatgtac acgcactaga tctctcatga tatctgtca 410

<210> 29060
 <211> 388
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29060

aaagagagca cgaattctag actaagccag atggacacat cgagatatgg acagaaagcc 60
 gtgggactag tgccttctct taagtaagat gggggcttag cgttctctgta caactgtatc 120
 catatagact gttatcccc ataccacagc atcggagagg gctctaattgc ttaacacaat 180
 gagcctgaca cttagtgact gttctccac acgttccaga cgcatagtgc ctggttccct 240
 aagctcagat caagtgcag ccaggtacta gcgcaatata gcctgagtgg gccggctctc 300
 atgcctacgt ctaattccac tgtatacaac gtgagatcgc aacgcaacat tgtgccatgt 360
 gagctcttcg gtcacacagc gtgattcn 388

<210> 29061
 <211> 426
 <212> DNA
 <213> Glycine max
 <400> 29061

ggccttcagc tctgacctgg gatcctctaa gatcgaccca tggggcagtg cctcttgatg 60
 tacacctcta gtgactatgg catttcttac ggtactatgc tgaccacaga gtgatgcctg 120
 catatctgtc acgtgggtga cgacaccttg aggactgtct gcgagggtt ctcgactggc 180
 accatccatg attcttctct acatatcact gacttcttca taaaagata gcctacgacg 240
 ctgctatgca agctaactgc ggacctactg ccacatagga tcttagatct ctccccatag 300

tcgctcgtgc tgtctccgct gagctgtgta ttacgtgaga tctccttact aaagccgctg 360
gcctgcaagc acggtacatg gtttctcaaa ttactcgctt aaggacgtac atactatgga 420
tggacc 426

<210> 29062
<211> 217
<212> DNA
<213> Glycine max

<400> 29062

tcatgcatac cttatatggt ccagctcttc acatcagctt cttcaaggac agacttatta 60
tcataacgcy ccggccggga tccatatcac attacatccc cattttaacc gatgcgtgat 120
caataggaga cggccgaaca gctgcaagcc gacgtggccg ctctgaaaga tcacatggac 180
taactggtga gggccatgac tatgctgaac ctgctca 217

<210> 29063
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29063

ntgactcgtg ttgatgcgtt gcttctacgg cattagagcc tgacctgtga ggctcagagt 60
ggaacgccgc atgctatctt taaagttgac ctagtatcgt ctgagagacc atcgaacctc 120
tagacattac antgtgtggg agacatgact agcatatgct ggagtatcag ataaccatg 180
accacgtggg gggccgagta cgtgtctctc tcgacttggc cttgactacc atcagcgaag 240
taattgacta ctgtgagtgt ctgatcgaac cgatgcatcc tgatggattc ctaattggtg 300
tgaagaacaa tctcccttac tataaacatt atctacgca atacttgggc gtactcatcc 360
gcgactctgt gcacgtgggt gatggctaga cgctattact attggctcta tgagatgaca 420
gcttgcgtgt cgctccctcg tcatcatagc cactcgtaac tatctcgtg 469

<210> 29064
<211> 179
<212> DNA
<213> Glycine max

<400> 29064

tgcctcacat tatcttgatg acgcaacagc taagatgaga atctaggaga tttatccatg 60
agcagtgatg aacgcactta tcttgacact cttgcgtcaa cagtatctag ggaggcgatg 120
gtccggctct ggagtcattc cctcgataca acagccacac agtgattcca aactatgct 179

<210> 29065

<211> 237

<212> DNA

<213> Glycine max

<400> 29065

atgcttgtag cacaacgaa cgactgtaac catacagtcg gacgaacgag cgactaccgt 60
cggatataga catgcacgga attatatatc taagctgata tcataggaca acgacaataa 120
ctgttatctg cgaagcccaa ttgattcccg ccctatatca agacgctcgc agtttagaac 180
cgaagctgga ctaaaactaa catacgattg atatgtaatt ggatgtccga ttggctg 237

<210> 29066

<211> 224

<212> DNA

<213> Glycine max

<400> 29066

gaatgctcaa acgattctac cacggacaca tcatacatcg agtcttcacg atttcaacta 60
ctggagctta tctacactgt tcttgttata taactaata catattactc gtgcttaact 120
gatgttgtct caccacacgt ctcatacgct tgaacctgtg cacacttctc tcatatagaa 180
caccgtatct tcttcttcat caatatccaa cagtactcga acgt 224

<210> 29067

<211> 131

<212> DNA

<213> Glycine max

<400> 29067

gccaacacgg tcttggataa ctagctctat atacgcctct cgagttactt ctaatggatg 60
cctgacgctc tctaccacgt catgctgac tctacacatc atctttcatc gaagatcctg 120
tgccccact c 131

<210> 29068
 <211> 221
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29068

 acccgttcctt ggaggatgat atgagaaggc cagtgatgga caagttgcta ttggggccga 60
 cacttctact ctgctcgcgt cttgtcacgc ctttatgtga ctcttttccc cgaacgagac 120
 gaaacttccc ggatgtggtt accatactcg tctattggcc ctgccgtgac ggtacctgac 180
 ggacttacct gcttatccat ntaatgatgc tgtagagtgc a 221

<210> 29069
 <211> 233
 <212> DNA
 <213> Glycine max

 <400> 29069

 tacgaaatac atcatctcac gttcataaga gggagcctct gagagttcca cttcatagt 60
 ctgcactct ctaccttcag ggactagtgg gatgtactct gactcatgca cgttgtgttg 120
 cgacgggaca tacgctggtc gtgcgggctt gccttatgac gatatcaaag tgcctgattc 180
 cttgaacctg atgatcaccg atgcattaag agttgtctat agcctttcta tga 233

<210> 29070
 <211> 311
 <212> DNA
 <213> Glycine max

 <400> 29070

 atatataatg cgccagaatc acactagcgt tggtgagct atggccatag gaatgatttg 60
 agagcctcct gagctcaact ttgagcggat cgatattgaa cgtgcgatta tctgactacc 120
 gtgtgactag ctatgaacat cggattgact tgaggggttc cgtatttcga cttccagcgt 180
 gacgagatat gatgctggca gaatatcacg acctttcggt ggttatgacc ataggaattg 240
 atctagagcg cgctgagtcg gacttcagcg tgacgattat gatgcgcgga gaatctgact 300
 accctgcgat g 311

<210> 29071
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 29071

gctcatacat acgactataa tgttatggat ggatgaatga tcgatgacgg tcaaaaatcc 60
 atacgctgcg acttgatatg attacagtac tcaactcatac atacgaccat atcggttattg 120
 tcggatgaat gagcttatac cttcatacat caatacccat cgtctcgata gattacgaga 180
 ctcactcata catacgacta taactgttat agtcggatga atgagctgat agcttcataa 240
 ttcaatatga accgactcga ttgattacgg tactcactca tacatacg 288

<210> 29072
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29072

ttcttctgag taccacacag ctggcgacat acatagaatg ggcgaaccag aactagcgga 60
 gtgccaaagt cactattcta tgtctctgac aacaaattta taccgaaatg tgtcgtgttg 120
 atccttatcc actacatggg tgcattgactc cgtagggacg tgcgatacat caagggcgct 180
 taccggagga cgcgacgcgt ggctctgct gtatgcgtct ctgccggctg cgcatacacc 240
 gaaggactcg ccctagactc actcgctact gtatgcgacc tgcgcctacg cccacctcac 300
 taatacaaca ccgaggcggg acgattccag catctttgtg cttgggtgga agaatgcgtt 360
 gaataacagc actacagtta cttccacan naattatgtc actatggat 409

<210> 29073
 <211> 217
 <212> DNA
 <213> Glycine max

<400> 29073

accttccttt agacgggagg gcaactgaagc cacaacagat ggacccccga atcactttaa 60
 gactgtacaa cagcgagata cagtcgatat atatggctct ctgaagactg atggtcattt 120
 gcttatctct ctgacacagg cgaagcacct tcatatgatg taattgactt ttcaagctca 180

tagagactca ctatagcgtc cgacctccac acaatct

217

<210> 29074
<211> 168
<212> DNA
<213> Glycine max

<400> 29074

tattgtagac tattactata gccgtctcta cataacattt atcacactca ccattcccct 60
tatgcagaaa catttgatac taattgacgc attttatcca tcaactggag ggcgctcgtc 120
caaatatcaa gcgcccgata aagctagcaa agactcgtga tccatggc 168

<210> 29075
<211> 265
<212> DNA
<213> Glycine max

<400> 29075

ttcttgacag ataaccacca tcatgcgtga ttgctatgat aaagttcgtg gcgataaatg 60
aggtaccata tcgatgctct agactacata gacctacatg tacagacgga ctgctctgta 120
acctcatcag ggagaggtca ttcgtttatg acgattcctc cacctgctct attcacttct 180
agcctacctg attacgtggc gctaaatccg atcataccga tgaccatagt gcacataact 240
aataggagaa gcacctgggc taatg 265

<210> 29076
<211> 108
<212> DNA
<213> Glycine max

<400> 29076

actttcttgt tcctttgaaa accacacctg atgcttgaga tcaaactgtg tccatctgac 60
tggtccttat cctctctctg aagctaaagc tcgcttgctc tgccccac 108

<210> 29077
<211> 346
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29077

agcttctctt ggtccttang aaaatcttca actcatcctt caagatcaaa ctgtgtactc 60
 gtgattggtc cctttcctct ctctgaagct taagctcgct gttactgccc cacagagccc 120
 ctcggaattt ggtccggcca tgttcttccc tatgggccct tttggctctt tgttccaagg 180
 cctttgtggt ggctatatatt atgtctctca gttcggcatt ctcttttcag atcttaagag 240
 ctgctgattt gaactcttct ctgactgttt gggctgtctc caagtctgcc ctgatggcct 300
 acattctttt cgcctctcct cgagcttaaa ctacaccccc ttaatg 346

<210> 29078
 <211> 174
 <212> DNA
 <213> Glycine max

<400> 29078

agctttttaca ttctatttcg agcatctcga tatgttacgg gactgaatca gacatccgag 60
 ccaccagtta ttgtcgtttg aatttgctca gagcatcaac attcaatttt aagcatctcg 120
 atacgtgatg ggactgaatc agacattcga gtaaaaagtt attgtcgttt gaat 174

<210> 29079
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 29079

agctttttatc atgggttatg gaccatttca agtgcttgaa agaatcaatg acaatgctta 60
 caaagttgag ctgcccgggtg agtataatgt tagctccacc ttcaatgtct ctgatttatt 120
 tctttttgat gcaaattggag aatccgattg atgacaaatc cttctcaaga gggagagaat 180
 gatgaggaca tgaccaagag caatggcaag gatccacttg aatgacttgg aggacctatt 240
 gatgatgaca tgaccaagag caagggcaag gatccactgg aaggacttgg aggacctatg 300
 ac 302

<210> 29080
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 29080

agcttcttcc ttgtgctaag ttttgggact tagtttacct catgctcaat tttatctcgg 60
tacttcgttt ttggtaagtc attagctcaa tttttgactc ctataattta gagaatgatg 120
catcattttc tcaattaaac attttcaatg attatcttta tcttatttag atatacatgt 180
ttatgctatt aaaaaacatc tgaatttttt agattatgca gagaaaatag gaagggagaa 240
gaagagagaa agatgataca caatagatta acttaaaggc tgtaactggc cgtccatctt 300
agaatcttac aatccgtcaa ttaacaaaag caaatagaac aatttttttt attaacgggt 360
tgttntatth tatactataa agaatatcaa ataaaagaat 400

<210> 29081

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29081

cttgggcata gaatcntgaa gttgagggaa ctgaagtgna tatcactccc cacaaatcct 60
tttagtagaa caagtttaga atcctgtgat ttaacaagac aaaatgatga gtgaaacttt 120
acctaaacta gataactcac tcgagtcaat ttggaattaa cataagtaaa gtacactcct 180
aacaacaaca ataataaata tatatatata tatatatata tatatatata tatatatata 240
tatatatata tatatcttaa tttttaaata ttaaagtttg aaattgtgtt tatttcattt 300
tacaaaactc gattgataat gtttattata ttaattatth atagactata aaaatctctc 360
attaaaatca gatatatgtt attgacaaat aattagaaga aagagagata ttaatgacaa 420
tgagt 425

<210> 29082

<211> 302

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29082

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ccaagcccct actttcgagg ggcaactccc accttatgac gactatcccg ggcaagacga 120

tgaggaagga gatacctatc ttggaccctc gctccacctc aaagatccgt ccccccatga 180
 actaccccaa ccgaacatag tccgccatat cccggttca cccacacctg taaaagaatc 240
 tgctcccttc gcagatgata acggaagat ggaggcgctn gaagagaggt taagagcagt 300
 cg 302

<210> 29083
 <211> 291
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29083

tatgttatac aacaaagata ggagagtcag caaaatactt tcttcnattt aatctgccat 60
 agctactcag ttgccaatc tccctcaaat gctactacaa aacctacaac aagctcagca 120
 aaacatgttg ggtgttgtca tccaaccacc tcccattatc caacaacaac caactccaag 180
 tatattgctt gcacctgttg aaggaaaacc atcatcacc acatcaacac caccagttca 240
 gccaccacca ccaccaccga ccaatcaaga gtgacaatga tgtcccatca t 291

<210> 29084
 <211> 388
 <212> DNA
 <213> Glycine max
 <400> 29084

tttcttggtt ctacacgtat gtatcagctc caatagatct ttcgctctcc atgctctgct 60
 tgttgagaaa gaaaatcggt gttgcttacc aaggagacat cctttacaca cttcattggt 120
 ctcccttatg cttggaagat ctctcatcat gttcttctca tgtaacaact tcaaggcatg 180
 tgtgttgaag tggccaaatc ttcgatgcca tagccatgaa tcatcaactt gtaccttcat 240
 gccaatgggt ggtgcatatt taaatttaga gggaagcttc tattgctctt attcatcttt 300
 acttgggcta tctcagacct ttctatttgt tgctaagat ttgcatacac ctccctttaa 360
 gtgaagcgtg tcgcctctct caatcatt 388

<210> 29085
 <211> 214
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 29085

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cccttcaagg tcaaccaca ctattttctt tgcttcattg agtcaacaaa gaggtaagga 120
aggagtattt catttcttac gaccgtact atgttgctag gcactagaac ttcattctata 180
tggnngatttt tcatggtaa caaaaaattc ttgt 214

<210> 29086
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29086

ngtaggatta tggggtacct atcacatgta ggactttggt gcggtcggtc gatggtgcac 60
aacaagtttt ccacatgcac aatgcgcgca taaaccacc atccccgtt gccaccttc 120
aactgagctc acgtactccc acgtagccca tatctcatt tctctcaaca ccgggtcccc 180
atcaatcttc ccaagcttcc ccaacatcaa attaatacaa cattcaaaca gcacatgcta 240
tcacagcaaa gcaaaacagc gcaaaggcag aaaactctgc ccaaaacacc aaccaaata 300
cagcttttct cacttaaaga cccagtaac aattccttcg ttccggttca ttaaccgttg 360
gatcgactcg aaaatttact ggaagtctct agtacataag cctacatttt gaccgttggg 420
atctact 427

<210> 29087
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29087

tttcttttat atggaataac aacataaata caaggctgtg caccaacaat gaataatgga 60
ctcacacggt ttctgtgtat ctataccagc agcacaata cagttaacc atgataccca 120
accatcatct gctgatgacc cttactgctg atattactaa atgtagagca tatatgcaag 180
ctatacaaaa aagcctaccc ataccatcta ctataacatt cacgtaagac ctgtatcatc 240

atattaatcg atctcctttc cttaacaaag agatcgaatc aatcataacg ttatacaata 300
 canacacgcc ctgggattca tctccattc acaatacgag aattttcttc ctctcccttt 360
 cgcattaatc actgcccaga ctctatgttt tgcc 394

<210> 29088
 <211> 468
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29088

ccgcctccta tnatcttgta gcaccnacgc gacacnanag aaacncaagc gggggaacca 60
 cnacaacaaa cacngngggg nncnntgtg gtttcaagac cancacacag caagagggag 120
 cagccggcna gggacnccca ccgccagcga cgagaaacn gccgtaacca accaaccgcg 180
 gatagacca ggcggggncn ganatatcca ccaacggata ccctcacctc accatggctc 240
 acacgaagaa aacaaatnac gcttttgacg caaaacacaa tgccttcccc agtttttgta 300
 tagaaagatt ataaccgtac ttcctcaaaa accaatggcc ctgaacaagc ccaccacgct 360
 tcttttcgca aatcaaaaaa gccacgacaa tagaagggtta gttccggccc ccccgacaaa 420
 tacctgctaa ccccggaagag gcgaaaacaa acagaacaca ccagcgcg 468

<210> 29089
 <211> 343
 <212> DNA
 <213> Glycine max

<400> 29089

ttgcttcttc tttattcacg aagcataata acaagaaaac tacatgatta gtttccctt 60
 gccccccact ggatatatac tatgccaaaga cataaatagc tcaagtgcaa tttccatata 120
 cttgatattg ggtcaggaac caaggacatg tgtgcacaat aagattaaga aaatgacatt 180
 gaaacggtgg atcgtgttcg tgtgctgtta acatttcata ataatgtgac ggtagcaata 240
 atgacaatga gtcgagaatt tgacagagca tcgcatgaac attcaaatta gcatatgtac 300
 tgtttgactg cttatgaatc ctcataaaaa cagttttctg acc 343

<210> 29090
 <211> 303

<212> DNA
 <213> Glycine max
 <400> 29090

gagccttctg ggcattggta ggagagggtg caagaaccgg acacatcagc tgaaacaaaa 60
 gagaacaaat atctgagggc tctgaaactt tctaaaataa caaagagttc caagaatctc 120
 gaagaaaaca tcaaattctga ctctgaggta ttgacagcgt gccaatTTTC atcaaaagaa 180
 caaagcaaac aaatttcaat acccaaattc ggaatagacc tgactgcaaa caacaacagg 240
 taattctttc aatctttcaa gatagagaac ctccatgtta cttaaataa gactgcgaat 300
 att 303

<210> 29091
 <211> 391
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29091

ttgcttttca ttcaacttcg agcgtctcgn tatattatac gactcaatta gacatccgag 60
 tataaagtta ttgtcgtttg aattttctca gagcttcaac attcaatttc gagcgtctca 120
 atatatgacg ggactcaatc acacatccga gtaaaaagat attgtcgtct taataggctc 180
 agagcttcta cattcaattt cgagcgtttc gatatatgac gggactcaat caggcatccg 240
 tgtaaaaagt tattgtcgtt tgagttggct cagagcttca acattcaatt tcaagcgtct 300
 cgatatatga cgggactcaa tcaggcatcc gtgtaaaaag ttattgtcgt ttgaatcggc 360
 tgagagcttc aacattcaat ttcagcgtct c 391

<210> 29092
 <211> 230
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29092

aacacgctcg aaagggaag gcgaagcccc gagcaaannc aaacgacaan anannnncaa 60
 gcggagggcn aanggagncc cagaacacaa cgagacgcta gaaggngaag gcngaagcgn 120
 ngagcaaagg caaacgacaa gaacggnnca ctcggaagnc nganagagcc ccgnaacaaa 180

aggagacggn cgaaacngaa cggggaagct cngagcaaan ncaaacgaca 230

<210> 29093
<211> 209
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29093

agagcaancc gaaagaaagc cagaaaggaa aacaaaagnc acgaacccca ccaagaagaa 60
aaagaaacnc gagccaacac ccacncgaac ccccgangcg ggccccacag aaaccccacc 120
gaacggagna agggcccgaac acggcancga aaaagaaaac cccgagcgag aacccgaaga 180
ccncggcacn gagnaacacc gagaagaca 209

<210> 29094
<211> 293
<212> DNA
<213> Glycine max

<400> 29094

ttcttttcac ccttaccgac aatggaaaaa gcttttaatg gaagtcaaga gcatgaaagt 60
gcaactgatac cattaactag tcaatatgtt cttgagcagg ttgaagacat ctatactata 120
tttggaagaa ccataagaa ggataaaaag actaaaactt gcatatggaa gatgaggccg 180
atattgatcg atcttgcata ttggttcgat ctagacgtca gacattgtat caatgttata 240
catgtggaga caaatgtgtg tggtagtggt attgccacac tccttaacat tca 293

<210> 29095
<211> 143
<212> DNA
<213> Glycine max

<400> 29095

acggacctga cttctatggc cccccataa tctaagtttt agattaaaca gaggaaagcg 60
ccccggaaag gacctggaca cccgccaccc ccactcggag acatcgggcc caagtcagcc 120
ggcgaaaccc ccgaaaggga ggc 143

<210> 29096

<211> 413
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29096

 agcttgtatt attactacta tcgcattgcc ccacaattca ccacagaaat agaacaaaga 60
 tttatccaca caggttcaat gaatagtaaa tagctgctgt cttaccgcgc ggctattatt 120
 tcctcctttc caattcattt ccatttatta aatttaaatt gggaatttgg atctcgggct 180
 tccaagtgca tctgtattac tgtataaaat ttgggatgat aatctatgat ataaatatta 240
 gtcagtcata attgtcacag atctaattaa acctattaac tttgcattaa ggcaactttc 300
 tatttatttg gtttgaagat tttaaaccta tgcttcttcc attgcaaggc cctaatttca 360
 ttntatccaa aacaaaagtg agaaaatcat tggttcttta atttctccaa ata 413

<210> 29097
 <211> 436
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29097

 tactaagctt gatccacatg gcaccgtctt cctgatcgcc ctaattttct tccaccaaca 60
 agattattag tagcaaccaa catgacattc ttttcagctt ctatggcccc aaatggcgcc 120
 tccttcggcg taacctcact tcaagaatcc ttcaccctc acaagttaag tcctattcac 180
 atgctcctgc aacgccttag atggttattt ggttgctact tatgcctctg tgaatttctt 240
 ggtagctgag atcgggaggg acccaacagc ttgggatgat cctttggcct ttaagccaga 300
 gaggttcag aacaatggtg aacaaaatgg aggcacaaat tttgacataa tgggaagtaa 360
 agagatcaag atgatgccgt ttggggcagg gaggagaatg tgtcctggct atgctttgng 420
 aaatttgac ttagag 436

<210> 29098
 <211> 409
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29098

agctttaatt nttttaaaat taatttataaa aataaattaa ttacaagagg gaccaaacta 60
 caaaagcttc aaatttatta acttatcatg atgtggaatc aatttttaag gtggttgtaa 120
 tctattggtc tacataaatc atgggttccaa aaccctttta aatgtaaagg ttccattaga 180
 aaccacctaa aaatattggg taactctttg atgctaagga aacttatctc aagattccaa 240
 tgactgacca aataaatttt attcattcca agaaaacatg attcccagga ttcatgattt 300
 ctagcaatca tgattttctaa acatgaaaaa acttattccc caccaaagtgt cccataatat 360
 gtatgatcaa caatttcatt accataaatt aattaattgt atttagtat 409

<210> 29099
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29099

tgaggagaca ttgaatcaat tcatacagat gtccatgtcc aatcnatgag cacaaagtca 60
 tcaatcaaga acttgagat acaagtggga caattagcca aataaatggc taaaagaccc 120
 attagcagct ttagagccaa cactgagata aagctcaaag aggagtgcaa ggtaattttc 180
 actatgaggg aaactgcaga gaaggaaaagg agaattaagg aggatatgcg tgatgaggaa 240
 ggagaaaaaa agaagaggga ggaaaagata agagtaagga gagtggtaat aaggtctcaa 300
 ccactaagac caagaccaag agccagttag ctcatgaggg cagaagagag ataccaccag 360
 cctcatcaaa aaaaggcacc ataccctcta gtgccatcaa agaaggacaa ggaacgctac 420
 ttcaagtag 429

<210> 29100
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 29100

agcttgataa aattttaaga aaataagtac tagctcaa at ggttaatagt ttctataatt 60
 ttgaaaagta taatgtacat taacattagt gacaaaatag taaatggagt agttataccc 120
 gatccaagaa atatttagca acattgggaa gattatgtaa ttcctttttt gtcttgatg 180

tttcttgaac agcaggatct ttccagatct catctaccat aggagcatac tcacgcgttg 240
cagcagggaa gaaggcctcc aaatctccga tggccataat atccagtaat cagtcagaaa 300
agtgttgaa tctttgatta tagagtaaac actcaccttg ttttcgtcag ctgctgtctc 360
tgctaaattt attatacaat tagattcatt cacataactc tagcctt 407

<210> 29101
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29101

tctaaactnt gtacaagaat gaagctctga taccacttgt tagattagtt gcctcagata 60
tcttaagaag ggggttgaat taagatatca caaactattc cctaattaaa aattctaatt 120
tgattttaac ccaaactcta agattccttt taaaatgaat tcctaaataa ttattcaaat 180
taaacttact gaatagaagc aataagcaat aataaataaa agagttaaag ggaagagaaa 240
gtgcaaactc agttttatac tagttcggcc acacccttgt gcatacgtcc agtccccatg 300
caaccgcctt gagagttcca ctcaatcgca aaaacccttt acaagttctg aaccacacaa 360
ggacaaccct tcctttgtgt tcagatttct ttacaacaag agaccctcgg tctcttaatc 420
cctt 424

<210> 29102
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29102

gctgtgaata atagtcatgt tcataaagaa gagaaaaagg tttttattta tacatgtatg 60
taaaaggaaa tgtgtataga agaattcttg cgtgtaaatg atgtgtggaa aggaattctt 120
gtgtgtgtga gcaacgagtg tatatgaaga aacttttgtg tgaactataa gtgtgtgttg 180
aaaaaatga aaaatctttg aatgtgaata gggtttgtat atagactata tgacgtaaag 240
agaagagttc caatgcgtgt acagaaaaag tttgtcatgt ataagaatat agatgtacaa 300
agaaaggttt tcctcataaa ggaccacagg tgtataattn tgtgaatgaa acaaaaagga 360

aaaagaaaga aagaccgcga aggtcgacat gttatagtta agaagtat

408

<210> 29103
<211> 425
<212> DNA
<213> Glycine max

<400> 29103

tgccgcccag ctgcccagg tgagttcagc tcgcccagct agttttgttg ctctctcctg 60
aagcaacagc cttctggagg aatcttctgg acggcccaag tggcctgggt gctattttaca 120
ccccctgtt tactaaatgc accccccttt ctattttttt gtaattcttt ttccgtaacg 180
ttacgaaact ttacgaatct cgtaacgata cctatatctc ttccgcaagg ttacgaatcc 240
ttacggatta tgtatttctt ctttttttagc ttccgaagaa gttacggaaa ctcacggatt 300
gcacaaaaac accacttttc gatttcgcgc acattacgga atttcacgaa tcacgcatgc 360
ctgcttcctt tcgatttctg agacgtctcg ggacttcatt tattgcacgt aatcaagtaa 420
taatc 425

<210> 29104
<211> 381
<212> DNA
<213> Glycine max

<400> 29104

agcttggttct gatgcttggc accaattcat gaccataaat cgatggcaac aaacacccac 60
aaataaaggg atttagtta tgcccacctt tcacacataa tcaactcggga aaacaccacc 120
cttccttaat aagaatccta caattaacct taacgagaaa aaagttataa aggtatacat 180
tatctaattc tacacactat ttattcttat aaaacactga ctcgagcgtc aacatcttta 240
tgaataccct gccagagttc gactcatagt agatcatcat aaatattgaa ttctgcttca 300
aatacttttt aaccttaggc tataatgcta aacaagtatt accttcaaat tcaaatcata 360
atttattcta agtcataata t 381

<210> 29105
<211> 277
<212> DNA
<213> Glycine max

<400> 29105

acacttttga ggactaaatt ttgtattttt atctttcagg aatgtatttg tcagcagagt 60
gaaaaaatga aaaattaaac acatattata taacaaatat gcccttatac tgacaattag 120
agatgacaac aataatttta gtaacaaatt catctctcta tgtcatgtat gttattttat 180
taatggtgac ggacaaaagt taacagccag atatatttat cgcactttat acactttttt 240
aaattctata tttttatttc tcaaagacac atttatc 277

<210> 29106

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29106

tatcttatga ctgagtcaat tcacctattg gatcaatgaa ccattgatct agtttgggtc 60
aattttttatt taaaaaaaac aaaaatgatc ttgattaata tacaaaaaaa tgaccaaaca 120
cgaaggagat cgtctctgtc tgtcaaattc acatgaaact tttgtttaat gaacctttgt 180
ccctaataata atcataattg gcctccaagg accaaacttc actagcattg tcgacctcaa 240
accaccatca ctccaccaat gtcattccacc tcaaaccacc atcattccac tagtgtagtc 300
gactatctct gtctctttgn tggactcact cagttgaatg cagaaccaac atcaatcaac 360
tttgcacgc aacctcccat ggcctccact gagagc 396

<210> 29107

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29107

acacaagaaa ctcagcttct caggaagttt ctcaaggaag ctacctaggc nattaatata 60
aagcatgtgt aacacttggg gtaactttga tgaatgagag tcttgtgaga caaacttcaa 120
agttcaactt ctctccctct tttcttccct caattttgtg ctccccctc tctctttctc 180
cctctctctc tttcttttcc tccattgaag caccctctcc aagcttctta tccaagacac 240
tctcttgggt gcgaagctcc ttcttccatg gcttattccc tagtggatga cgctccctc 300

cacctcttct cctttatctt ccactgcac tccatgatgg gaaatcacca ttgaaggacc 360
 tcattgaagc tcanagatcc agtctccata gaagctccac aagcaagctt acataaaaaa 420
 gaaataataa atcacaatta attaa 445

<210> 29108
 <211> 408
 <212> DNA
 <213> Glycine max
 <400> 29108

ttgtgggttt aatatagaag tgagggacaa ggttgaactc cttccatata gggacctaga 60
 tgagctagtc caactttgta taagagtga gcaacaactt ataagaaagt cttcttcaaa 120
 atcttatggc ttttactctt atccaaggaa ggaccaagcc caaggaattt tggggactgc 180
 accttcaaaa cccaagaaag ataagggtaa gaccatagag aaatccaccc ctaagactag 240
 ttcctaagaa aggactagca acattaaatg cttcagatgt cttgagagag gtcacattgc 300
 ctctcaatgc ccacaaaaga gaaccacgat tatgaggggt caagacattt atagtagtca 360
 agaggagact acttctcccc cttccttttag tggaagtga gatgaagt 408

<210> 29109
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29109

tatagtgcga gggatatgaag agaaaatcaa ctaggattaa tanatgtttt atgagggggg 60
 gggaaattga taaagggttaa agagacttca gtttaatact cacgcagtac attttttaaag 120
 aggaaaaaaa ttcaagtgtg attaactctt aaaattaaag actaatccta taatggatat 180
 atgaaagaat caaaacaaaa agaaatgcct tagagtttta atcaagagtc aaaaatttaa 240
 attaatatgt tagttatata taattaaaaa aaaagagaac taaagtaa atgtacatgggt 300
 ggattttgtg tcaacacaat agtttgtgta cctagccaat attaaattat acttcattgg 360
 ttcctattga taagactcaa gtttaaaata atgtttgttc tttttttata agactcaatc 420
 taccatgttt c 431

<210> 29110
 <211> 453
 <212> DNA
 <213> Glycine max

<400> 29110

ggcgaatcga gctcggggccc gtgatactct aatcagctgc cgcattgctat ctatattaat 60
 gagcataata aaatccaaat agatatatta ttgctatagg gatgagaaga aatgatggta 120
 aaccatattg ggttgcaata gggaagagga gaaagaaatg gaagccttat tgagacgac 180
 gagtaaggca ctacaacaca ttataaacga tgagtagtag tcgatacaga agatacgtac 240
 tactgtgtat atggatatat aattgacctt tgctgacgca ttaatatgtc tacacaatat 300
 gtatcaagaa tgtgcttatt ttaagatata tagaagatta cattgccagc gtcaacattt 360
 agatactaata ttagtatata tatatgtata tataatctata tgtatatata tgtatatata 420
 tctatgtata tattgatata tctatatata tat 453

<210> 29111
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29111

tacaaccata aaccccnngc aaaaggggca gnangcgnac acacgcgacg agcggcannc 60
 cacaanncag cccaagaagg ccaaaagcac tagnnnccta agctgctcca agataagact 120
 ccaagcatca attgatcacc ttagtctgac catcaaattt gggatgtgta aagaaactca 180
 ttctcagttt ggtgccttgc aaggagaata actcctgctg aaaagtgtg gtaaagagat 240
 gatccctatt taataagaac agacaacgac aatttttccc cttatgttta tcagaattaa 300
 gtccttgac caagcttttc ctttaaggag aagaagaagc caaanattag gccaacgaca 360
 atctaatacct tgtacata 378

<210> 29112
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 29112

tatcttttat cattctcaat taggtgttgt aaaattggct gcattgtttc tttattaaag 60
 gaagagtaag cagaaaagaa ggggtgaataa cacattatta cctataatgt gtattgggcc 120
 ttccttgact atagtccata tccttgcaag attttaattt tagtttacct gcgcacatga 180
 ttgactttct atggaaaatg gtaataagtt atcataatag tagatagagt aacatttcac 240
 gacttattat gcaatgacaa taagtgtatt ttctaactag accattgtta tttgatttgt 300
 gccttgaaa gattagtatt accaattact gttaatgcat tattctccat atgacagtta 360
 tttatttgca accacagaag ttacattatg atattaaaag tt 402

<210> 29113
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29113

tcagaccaca acaacacana atctatgtat ccaaaatcct gcaanttttt ggatccncaa 60
 ggccngagaa gcgaaatcga gaatgggata aatccgaagc aaactctcac ctacaccag 120
 tctataacat caatttaaac ttgctcaaac tggatttaca cctaaaattc caccgaatca 180
 aaattttact tctcaacacc caattttacc ctagaaatgg ctctttgttc acttttgtca 240
 tttgtttttc tctcttgtac agcccaagct ttctcataag tcctaaatga catttcaagc 300
 taggattaac tcactttaac ctccaaatgc cactaaatcc agatttggcc ttccaactct 360
 cataacctct ctcttttgtc actcataaca ccatattctc acttttctaac cctaagttaa 420
 c 421

<210> 29114
 <211> 399
 <212> DNA
 <213> Glycine max
 <400> 29114

tttcttgtcc agagaaggaa tccacggagg aaatgcttac cacctcgaaa gactggaaag 60
 cggtttctaa tgactttctt acggcctcca cataaggcat agaggacggg cagctcacca 120
 agatgtcttc ctgcctgat acgatgacca gatgcccttc cactacgaat ttcaactttt 180
 ggtggagtgt agaggaaca actcccaccg agtggatcca cgggcgcccc aacaggcagc 240

tgtagggggg ggtaatatc cattatttgg aaggtaactt gacaggtgtg agggcctatc 300
 tgtactggga ggtcgatctc tcccctaacc tctcggcggg tgctgctgaa ggcacgaacc 360
 accatggaac ttggctgtag gtgggaagca ttgaatggt 399

<210> 29115
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 29115
 gggggagacg ttagtgaag tgtgaagttg gcattttcta tcttaaactt aatggaattt 60
 cccaaatddd gaaatdddgg tcttgtacga gttagaactg tgttccttta ggataccacc 120
 agaccaaagc tcatttttaa tacagacaag aaatatttag tttatatatg atatttttaa 180
 tataaatddd aaagagaata tgataaaaaa gaataacaat aaacataaac aatgaaaaac 240
 tattaattaa aataatagga aatataggat aaagaataaa taaatatata acaatacat 300
 aatttaataa attaatgaat taataataaa taatatattd caaattgtaa atttattaac 360
 taattaatta attggtatta ttaatttata attggtgtaa tctttgaagt aagcagagat 420

<210> 29116
 <211> 291
 <212> DNA
 <213> Glycine max

<400> 29116
 tctgcaggcg agctgcgggc atgcacgctg tatgatgggt atgcttgacg gaatgcccat 60
 aatgtgtaca ggatatgtca tatgcccaaca ccagtgtatc tatagaacaa tagatgatgc 120
 tcttatgaac aataacctag ttcttgtctt ctgctgattt gttagcttat gcattctaag 180
 gcataatatta attgaagtca tgccttacta ttgaacgaat gccactacct cggaacacgc 240
 gagaatagta ccttgaacat ccattatata cctctggtac cccataccta t 291

<210> 29117
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 29117

tgctccanag aataagtga ctacatcttg tttattttctt tttgcaacat ccccttttgt 60
accccaaagg tgaagatggc tatagaccaa atattcttca taaggatcat ccaaatatct 120
atgttgcaaa gaggaaaaaa gttatcatgc gtgaatgcaa tcaagggaca atgaagctca 180
cacaatgcta cattcaagaa gattgtttca acaatggatt attaatgaat attgtatgat 240
tgagtctcaa aaactaaact atgttagaaa acatcaacag gaactcagag ttaacaagta 300
catgaattta aatgcatgta ataatgagcc cctaaccxaa ggcaatgaan aaggtaagag 360
aattatacta ccaagctttt ttgctggtag ttagagatat atggaacaac tgtatttcga 420
t 421

<210> 29118

<211> 391

<212> DNA

<213> Glycine max

<400> 29118

tgtcttttct tgtttctctc cccatatgaa accaacattg ttcttgagca cttcattgag 60
aggtgttgcc aatgtgctaa aatacttcac aaatcgtcta taagaacttg ctaagccatg 120
aaaactcctc acctcgggtca cagacttatg tgtaggccat tcttgaatag ccctaacctt 180
ctcctgatca acttgcactc cttttgaact cacaacaaaa ccaagaaaca caacatgtgt 240
agtacaaaag atgcattttt caagattggc atacaatcgt tcttttctaa gcacagtcaa 300
gacagatttt aaatgatcaa tttgcaaata aagcgaagtg ctatagataa gactatcatc 360
aaagtacacc acaacatact ttcctatgaa c 391

<210> 29119

<211> 411

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29119

actaactctt atctgtgggg gaatctctct tttttgtttt attagnaggn gcctcttctc 60
acctattctc ctttatcttc cactgcaact ccatggctga aaatcaccat tgaaggacct 120
catcgaagct taaagatcca gcctcataga agcttctcaa gcaagcttcc atcaagtggc 180

atcagagcac aagaacttca agtaggttgc tccttaaacc tgcattaatt tttagcttta 240
 ccttctcctc cattgttgtg tcttcatttt ctccatgtat ctctcacat gtcttgtgtt 300
 gaatgttgtt aacatgattt tttagaattt ccactgatta aacttgctat agaagctaga 360
 ttngattgtc tatggtacaa atttcttgtt cttgttcttg aacctagagt t 411

<210> 29120
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 29120

agtgtcatag tcatagcatt attgttagta tttcttatag ccataatgg ttcggataat 60
 gtttcatgcc aacacctgtg tttcttttca acaaattttt tgatttaatt tacaataatc 120
 ttgttagtgg cttctgcttg tttgttagct taggcataga aaggcataaa ataatgatt 180
 tcatgccaaa ctattgagcg aatgccacta cttgtgcaca tgtgaaaata gtaccctgg 240
 catccattat agcctctggg atcccaaadc tataggctat ttggttttgg atgaattga 300
 tgatgtcatt ttgagtaaca gagaccatca gttgtgcctc caccacttc gtgaagtaat 360
 gtgttgccac aataatataa ctatggcatt tagaagaact aggggtggatt tt 412

<210> 29121
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 29121

tctctaaagc tatggatgag gaaataactt agaaaattct tattcattca ctgcctcagt 60
 gcgccttatg cgctaagcga gtcttacttc gtgcgctgag caagttgtca ctcacactaa 120
 gcgcgccaac cccaccccat tggctgaagg ggtctcgcta agcgagacag ttgcactaag 180
 cccaacaagt tccatatttc aatcttaaca ttgttacata tttcaatgaa agttgccaag 240
 tgtgcataga gatcttcatt aggtaatcct tcaaataagt tcccttgcac taaatgaatt 300
 aaggaatgtg gatagttgat gttgttagct tgcacttcaa aacgtgcaat gctagtgaaa 360
 aattgtggta ctgaactact tgagtaaccc tcaagggtaa tcctctgggc atgctcttct 420
 gccatggtaa t 431

<210> 29122
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29122

agcttgtaca acaagtaact gaatctgttt ttggtactaa atgaagtaac taactaacta 60
 acttccacta atatataaag ttaatactca gaaggatggg atgggccttg attangccca 120
 tctaattcttc cttattaaac tgattacaca aagcaaggcc caaattcgta gcccaattac 180
 tcaagtgcgg aggttctgac ttccaagccc aatttgaccc tcaaaatgga agaattggac 240
 caagcttatt tgtgacaaca ttgaagatat tgtttcttat ctttcaaggg actaccact 300
 ctccatttgg agtccttttag tgtcctatat gccctgcaca agacagatag atcaagtaag 360
 cacaaaaatn tgaaaataag ccacaatgat caattaagct caatca 406

<210> 29123
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29123

ggcttggggg gcttcttttg aggctggatc ttcgagcttt tattaggtcc tttaatggng 60
 gntttccacc atggagatgt agcataacac aaacgacaag aggtgagagg aggcgccatc 120
 cactagggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180
 gcttggagag gatgcttcaa tggaggaaaa gaaagagga gagaaagaga gaggggggag 240
 catgaaattg aaggaagaaa aaggagaga agttgaactt tgaattttgt ctcaagac 300
 tctcattcat caaattacaa caagtgttac atatgcttct atttatagac aaggtagctt 360
 gcttgagaag ctttcttgag aaaatttcct tgagaagctt ctttgggaaa acttccttga 420
 gaagctagag ctt 433

<210> 29124
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 29124

agcttctata taagctgaac cattttatca ataaagacaa gttgagtttt attcagaaaa 60
ttagagttaa tctcttttat cttagtgaga gtgattctcc taaattcttg agtgattcaa 120
gaacaccctg gctgtatcaa aggactttca caacctttgt gtgttgccct cgctggaaag 180
agtgattctt tccttccttt catcttcacc cttgttcttt caaaccacaa ttccagaaaa 240
tccacctctg cccagaatta tctcgtggcc ataactccca ttttacgcac tcaaattaag 300
tgattcttga gcctaaattg actttcaaaa cgagaccttt cacctcgtnn tggaatcacc 360
tcattnggag cctgtagct tcagttattg ccatttctat atttct 406

<210> 29125
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29125

ntntggagta gaaacatggg accaactcat tntatttcat taattcgtat ctagtcaagg 60
tctgagagac cgtacaagtt tcctagcgat ttctaattat gtgggtcatt aagtctatca 120
tatgctgaca atagctgaga agcccgtgaa tttcttcggg ggcggagtag gtgtctgcca 180
tcgccttggc cttggctaac aatcggggaa gttcttgact cctgttcaag gtaagagcaa 240
accgatccat ccacatgggt gcctcttggt gtaaagagtc gatcaccctt cctctagcct 300
ctttttccgc gtatacttgg gcatactcgt ccgcgacct atgctcgtgg gccgtggcta 360
gacctaactc ttcttgggtac ttggcgatga tagctagcat gttggtctct gtctcgcata 420
aac 423

<210> 29126
<211> 399
<212> DNA
<213> Glycine max

<400> 29126

agcttatgaa tttaaattgg atatgttatg aatatatatg aaaatatcgt tcttttgcag 60
atacattcaa gttaaaggtc aagccaggga agacatacct tatgcgtttg atcaatgctg 120

cactcaatga cgaactcttc ttcagcattg caaatcacac cctcacagcg gttgatgtcg 180
 atgcaattta tgctaagcca tgtgacactg acactattct cattgcccct ggacaaacct 240
 gcaatgttct tctcaaaacc aaatctcact atcctaattg cacattcttc atgagtgtta 300
 taccatatgc gactggacaa ggtacttttg acaactcaac tgtggctgct atccttgaat 360
 atgaagttcc accacattgt gttcactcaa caacttcag 399

<210> 29127
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29127

ggtaaagaa aaataaaaaa agtaaccaa tattgaccnn atagggttatt cagagagcaa 60
 tcaagaacat cttatgatac cttgtggact ttgtataatt ggtaataatt tgacctatgc 120
 tactatttac aatggtagct ggagccatga acatttgggc aatttcaaaa acttgctcac 180
 tttctattat agtaccaatg cctccaattg ctttcacaac agcttctactg cccaagtac 240
 ttaatctaca gtatacaagt tgcctttca ctttttttgg ctctaaggag tttcatagc 300
 ataatctgtc aatgcattga aatggtactt tgtaatatg gaaagcttaa ctaggtgttg 360
 tcaaataaac aaaaagaaaa ttacttagca ttntccttgc ttccaaattg tataatcatt 420
 ccttatac 427

<210> 29128
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29128

agcttagaca aatgtaaact acatccaaaa tgatttaaaa atcatccagc tttagatggc 60
 tcactttagat atttcgtacc tatgttcttc ctcaaaatt cagacaaact tgcacaagca 120
 gcacgccttc tttctaggca gtgaagataa tcattcacta gaaataaaaa aaaataaaca 180
 gaaaactaat tagatcattg tgaaaccact gaacactgta tttttcacct tatcattttc 240
 tttattattt tattatttat aagtcaccag gtctagccca aaaatatata ataaggaaag 300

aggaaacagt cagatccacc agaggttctt taatagattc atggcccaag cacaattaga 360
tcttgacat tntattgatt ntattctgca tatctcccat taaa 404

<210> 29129
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29129

tagaagagcg tcgaggagaa ggctttngtt tttgtatac atcttaagaa aatcttcgag 60
ctgtactagg catgatcgta agaaaatata aaattttaaa attgttttta gttttcgtaa 120
cttaacgttt tttcattttt tggttctgta attttttttt ctaattttta tccttatata 180
ttgatgtttt ttcaatttta attcttgtaa gttttttttt tcatttttaa tcattgtaag 240
tttgtatttt tcaatttttag ttttttaaga ttctaatttt tttatttata gtttctataa 300
atgtgtgttt acagaaaata aaattgaaaa aacataaacc tacaagaaat tagaatgaaa 360
aaattgaact tatgggtatc aacaataaaa aaaacatgag aaaaaaac 409

<210> 29130
<211> 384
<212> DNA
<213> Glycine max

<400> 29130

ttgcttatga tcaacaaaat taataatcta ggtaataacc atttagttga aatgtctcca 60
caaggcatat tttccatccg ccggtgatgg ctattggatt aaaccatcaa caaaacaatt 120
ttttttcgca cttacagata gagcaatact catcgatttg ctccaagtag tgtaattatc 180
accattcaat tgtttggtga ctaaactaac tctgcatga tatgaggaat gaggacaaaa 240
cgatttgaac gatccataag gggattggta gtggctgtca tttgtgggta aattaaanaa 300
aatcccaag acatattgct ctaataccat ttacaaatga caaaagacaa gacaaggaag 360
atcagatgta ttggctcata tagc 384

<210> 29131
<211> 437
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29131

agataactcag cttggaaatc atggaatcca aatttgntng acccaattcg ttcaattctt 60
ttcttagaaa tgtgacctaa gcgcttgtgc cataatgctc ctgagtttgt attatcaatt 120
ctacgcttag taccacacaa ttctgtatta aaggattcac cataggaagc tacactatca 180
agtaaatata gattatcatt aaccaagagt gaagcagttc caacaatata tgaattaaaa 240
ggtaacctaa acacattggt tccaaatgaa cacaaataac ccaatttata caaataagaa 300
actgaaacca aatttcgtct aaatgacagt acaacaaaag tgtctttcaa atccaaataa 360
aaaccaatac ataataataa tctaaagtgc cttatagctt ccacttccac cgatgtacca 420
tctccaacat agatcca 437

<210> 29132

<211> 439

<212> DNA

<213> Glycine max

<400> 29132

ctcgtaccog ggatactcta actcacctgc cgcacgcttt cttttactta ttgtgaagga 60
attgagtacc ttgagacctt ctctcctgat gagaaaattg agacaattcc agctattctt 120
gcttaagact gcatcaattg ctggaaactt cagctacttg atgttaacaa tgcattcctt 180
catggaatcg catctgagga agtctacatg gtccctcccg ctggcgtaaa tgagtcacat 240
ccatctcaat gttgcaaact ccttaagtct ttgtatggcc tcatacaagc caatcgagca 300
tggtatgaaa aatatccctt ttttctcttg tcttgtggat atcatccagc tcatgccgat 360
catagcctgt tcatcaaac taatcagtcc aactctatag actttatata tttattgttg 420
gcggcattgt gctaactag 439

<210> 29133

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29133

gaaactaagc ccgagagata aaccttcact ggggcgcaac tgtcttatct ttgtatcnca 60
 ngaacnatnc ccacagcaat atgctattct gagagcttca attacagcca gcgagtacct 120
 agatggggta agtgtacatt caatcaatac cctttaaagc aaatgttttg attatttgta 180
 gttatagcgt ctagatactg atgggtggctg ttttaagaga cgttggtccaa gtgctttgac 240
 ttgatgcaag acatgatgag aatggaagca aaggagttaa tgatagatac aagcttttta 300
 agcacagaaa ctccagtgag tatgtttggag agaaacacta aacgacaaag aatttagtgg 360
 tttatatatg ttgcagaaga aaaattcaat tntctcaaac ttaagaagaa gaaagctgag 420
 ggaaaag 427

<210> 29134
 <211> 400
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29134

agcttgtaca ctacaacacc aacaaagtcc aagaatccct ccataacaat gatgctcaat 60
 accaacacgc tctttccac cttctctctg tctctcaggt atatttgcaa ttcatgcata 120
 ttgatatgct catatgcaaa aactagtttc aaattttatt cttgcgtatg gtgtttgttt 180
 attatatgca tagtttgta atcttcctta aaactttatt ttaatattaa tggatgtat 240
 tgaatgtttt taatggttga gataggtagc actgacacag aagtgctgaa tttattggca 300
 gttgaaagga gaagagatac ttgagcaatt cgaagcttct agttcttctg agccggtcgc 360
 ttctataact canganacag anagtgaaaa tgaggatgct 400

<210> 29135
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29135

tcttgctag cccctcttgg tgctcagaaa atcccttatt tctattcctc ttattactag 60
 ctattttgaa ttcttttagtt cctgaatgta caaccttcaa attgttgctc gtttccctct 120
 ttgttttctg caaaaaagaa aatcaatatg aaacaattta ggctgaattg ttatcgttat 180

tattactcga accataagga ataacaacta aacaagtcac ttaaaatgta actttgaagt 240
 taattggtat ttttttaatt acaagtttac ttcaatatct aattttttac tctacttagg 300
 tcgttttttt aatatgaata tgaatttaaa ggtgatatac agataatata aatgacttgc 360
 tagtcacaaa ttgcgatacc tatcattntt aattntaact tactttttata aatattaata 420
 aat 423

<210> 29136
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 29136

agcttttctt ctacagttat gttcatatga ctaatcatct cattaaaaca agcatttttaa 60
 atcatatatt tgctgccagt ttttaattatg caatacacat aactattaaa ttgttttcaa 120
 aatcatttta acttgctcgtg cctcaaagtg attagacttg ttaggttccc acaatggatc 180
 ccatcataaa actcatcgcg cattaaactcg ttgcccttaa aggggtcttac agttgtgtga 240
 ttgtacagtt catagctcac aactcaatgc gtacaagatc tcaatacaca tgtatcttac 300
 aattcaacac atactcaatt tatcacatac acccaatctc aatcacaatg ttataatacc 360
 aacgcacat gttatcacat ctcataaatt atatacacat cac 403

<210> 29137
 <211> 276
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29137

ntcaaccac ttaattttaa agagaatggt tntgatgttt cttttttaat tatntaagtg 60
 cctagatctt caaagatgga agtcaaactt ttactttttt cttaatcttc ttgagagatg 120
 ttcttattgc tctcatagtc cttggataga aggttgacct ctttctccaa cccttcaaag 180
 aatccatggc cttcccaacc attatacccc ttctggaatc tccttctca ttggcttccc 240
 tcttaatcct cccttgccct taatcatttg gggggc 276

<210> 29138
 <211> 399

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29138

tttgcattgt tgttttttca gcttttgaaa tatgtatttt tctcttttat tattctgaat 60
attctttttg ggtacagcca ttatttataa tatagtatttt tttttactaa attcctttgt 120
aattttaaaç agattcatat tttcattgca tgggtcatgt tattcaatct catagagtgc 180
attcttattt ttaatgtgct aacatattct cacctttcat ttctagtaga ctatctaagt 240
tatttgaatg aagaaggact agctatattc ttagaatgag gctttgagcc taactcaact 300
ttaaaagcta gcttataggg tgagggttgt gccctccact tatatagtcc atcttggtac 360
tatctctagc caatgtgaga cttgaatttt ctcatacac 399

<210> 29139
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29139

ggancnangg cagggatntc accagaaant aatgtttggt ttttacacnc naaagacagc 60
cngccgcact caccacggnc actacgagca ccggggggang ccatncgggc tctgcaacgc 120
accgtcaatg tttcaagctg ccatgaacaa ccttctcagc cctttcctgc ggaagtctgc 180
gacagttttt ttttacgaca ttctgatcta cagcgaaatc ttcagtgatc accttcatca 240
tctcgaatgc gttttcaact ctcttctgca ggctcattat tatttgaagc aatcaaagtg 300
cttcattggc taacgccagc ttgattactt aggccacgtt gtctccggca gcggtgtcag 360
acctgatcca acaaatattc aggtatcgt caaatggatc acgcctcgat cttccaagga 420

<210> 29140
<211> 275
<212> DNA
<213> Glycine max

<400> 29140

atgcttggtc ttgatttttc ctaagttctg gaactagctt aaaacaataa acttggccct 60
ctcttaattg gccttggggc tggcgaacct caaccaccaa agtccttttg gcacctacta 120

tatgtggact tgaccaacgc tgttattgga atgttgcaac aatTTTTTcaa caccttattc 180
 acacattctg ataagtgggt tgccatgtga ccatatcgtc ctccatatgt atgcgacgcc 240
 atgctccatt tttccttaga gattcgatca atcca 275

<210> 29141
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29141

gcttgttaga caagtggcct tagaaatctt aagaagtgtt gggTgggttg aattaagatt 60
 ntacaaacca ttccccaatt aaaaattcta ctttgatctt aatgcaagtt ccaagttccc 120
 ttaaagatga atttctaaat gatgattcaa attaaacaat ctgaatgtaa atgttaagaa 180
 acaataaata aaggagttta agggaagaga aagtgcaaac acagttttta tgctgggttcg 240
 gcaaagttcg ttgcctacgt ctagtcccca agaaaccac ttgggagttc cactatctcg 300
 canatccttt acactttctg aaacacacaa ggaaaacct ttctttgtgt tcagatactt 360
 tataacaaga gactttcagt ctcttagccc tttgattaga aagagaagaa gaagaagaag 420
 atg 423

<210> 29142
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29142

acaccgaaa gaaaagaaag acggagagga gaatcaagga aaaagaaaac aaccaaaca 60
 agcttgagat cgagcctgca aaccaaannn nnagggncgg ggaaggaggg agaaaaaaaa 120
 gtttttgagt gagagaagag aaannagggg ggggaaagag gaagaaaacc caccaaagc 180
 agagcaaagg acagaaagaa aacgaaagaa agacgaagag aaaaaggaaa ggaaaagagg 240
 aaagaagaaa gagaaaagga agaaaacagg gaaaaggaag agaagcaaag gaaaaaagga 300
 aaagaagga aaaaaagaaa cgaagggaaa ggaaaggaaa gaagcgaagg gaacaaaaga 360
 cacggaggca agagaaagga aaaaaacaag aagaaacgaa aagcagaaca ggaagaaaaa 420

aaaaaagaga gg

432

<210> 29143
<211> 322
<212> DNA
<213> Glycine max

<400> 29143

agcttactca gaatcgccaa tcagtggact ttgttggttg cgattttgtc tgagctatca 60
tgagtaaaga tcgtttaccc actcattaat acaactagct tattgctaga aaaatcgagt 120
catattcata gttctaatagc tttcaatggt aatttcctta ttgtggtaat gcttcttctg 180
atgatgagat ggcttttgat ctgtggatga atcttctcca ccccgaaaag gatcctgcag 240
tgcaagattg accaaagttg acccaaaaaa gtcattcgtg tccatttttt taaaaaggag 300
tacacttttt tgattggaaa tg 322

<210> 29144
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29144

ctataacana tctaaaacac atagtttgaa accaaaggga gtactatttt ctgcctatc 60
ttttctcttt tttaaaagaa caagaaaaat acagaggaag ggaatccctg gaggaacca 120
ggaagaacaa aaaactcaga attgaaagaa catgcaatgg tcctcttgat tgccccatat 180
ttcaagcgta atatcgttta actacatcgg agttcacggg cgagggcaat tcctcgccat 240
ccatgtgggt gagtatcaaa gcacccccag aaaaggetct tttcaccatg aaaggtcctt 300
cataatttgg ggcccacttg cctcgtttat ctttaacage gtgggacatc ttcttcaaca 360
cgaggtcccc ctggttgaaac ttgcgcgggc gtaccttctt gccgaatgcg ttctttatcc 420
ttcgttgata caa 433

<210> 29145
<211> 53
<212> DNA
<213> Glycine max

<400> 29145

ggctgattgc tttttattta atgagctcct gccagaatcg actagcacag agg 53

<210> 29146

<211> 260

<212> DNA

<213> Glycine max

<400> 29146

agcttctatc tataggaggc ggaccattcc aagtgttgga gaagatcaac gacaatgcct 60

acaagattga cttgcctagt gagtataatg taagtgccac tttcaatgtg tctgatctat 120

ctctttttga tctctttttg atgcagatgg aggagccttg gatttgagga caaatccttt 180

tcaagaagga gggagtgatg aggacataac caagggaag gaccatgaag cacttgaagg 240

tcccatgacc agaggcagac 260

<210> 29147

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29147

atccttatgg cctgcctact gacttcaccc cccngcctc tttggattat nnaagccaag 60

ctcctacttt ngaaggacaa ctcccacctt atgaagacta tcccgacaa gatgatgggg 120

aaggagatac ccattctggc cccctgctcc acctcaaaga tccatccccg catgaactac 180

cccagctgaa catagtccac catatccccg cctcatccac acccataaaa gaatttgttc 240

cctttgcgga agataaggga aagatcgagg cgcttgaaga gaggttaaga gcagtcgagg 300

gcctcggtaa ttaccattc tcggatttgg cagatttatg tcttgtgccc aacatagtca 360

tccctcccat attcaaagta cc 382

<210> 29148

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29148

agcttttggg tgtaatactt acttggttgg gatgaacaaa agcgcgaaac ggaatcaaaa 60
aatgcgtaaa atgatgaccc tagggctgca aactcgtaaa tcccgtgggt atggcttttg 120
aaaggggggaa aagaagtttt tgaatgcaaa aacgtccccc ctttcgtcat tcttatattt 180
tggtgcaggg gtggctcgcc caggcgagct aacgtgcatt tttttttttt tgagaggaac 240
attaaccatg tcccctcctt ccttatgggt tagcatcttg cttaacttga acttacttaa 300
gttagagttg ggcattgatt acttatnnt ataacaaaca aaaagtaaaa gaaaactgcy 360
aatacaaagg atacggggct gccttgcagc gacgttctcc gc 402

<210> 29149
<211> 411
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29149

cgagaagagg aagcgnngaa gggtgaaact nctgctntt atttttgacc acagagnngn 60
acctggagaa atgncgcgcg ggncaagaga ccccggggac gncagggggg gngctatngc 120
ccaaaaccaa gctggaccaa tcccgaccca acccaggcat agtcggtcag tgagaacctg 180
tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaca aagaccacaa 240
aacaaggagg cttgtggtgg ctggccagct gtgaaacttg attgatatgt gagatatggt 300
ctctgggaat cgattaccaa ggggtgggtaa tgcattacaa ggctcaaaaa tgaagacagg 360
gggctaagat ggtctctggt aatcgattac caggggaatg aatcgattac c 411

<210> 29150
<211> 385
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29150

agcttctagc tttatggact taccttgaat taattccttt gatagccctt ctgagccttg 60
tttccctttc cttgttttga agctcactac aagccttaaa tgaaaaacca tgatatcacc 120
atatacctaa ggaatttttg agctttggaa ttgttttggg aataagtgtg gggggttttt 180
gtttcattgg ataacttgtt atgttggcta tgcttcatga tgtatttttg gccatacttg 240

atgtacattg catattggtt aaatgttggg catgctgaat gaaatgttgt ttctcaaacg 300
ctatagagta anacaaaaat aatcgaaaca tgagaaagaa aagcaataga gttgagttaa 360
taagatctta catggacaag aatga 385

<210> 29151
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29151

gcancaacaa gaancaagcc aaggctattg tgcaagcaat caatacggca aaacacacaa 60
aaagattatg atgatggatg gctcaaattc tcacaaaagt aaacttatca ctttcaaatt 120
gagctttcaa aactatcatg acatgtaaag gaaaaacaag gatttcaagt cacaaaatgt 180
caagagactt tcattttcag aacaattacc cattacttga acatataccta taattcaaag 240
aacaacatgc aaatttaaca caacaaaact aacaagatta aactagaacc caacaaaact 300
aacaaaatta aactaattta acacaactaa caaaaccata accaaagaac actcccncca 360
tacttaaaca acaca 375

<210> 29152
<211> 233
<212> DNA
<213> Glycine max

<400> 29152

tgctttttga acgcatactg tggatacaac tagatccgga cgaacgctcc agatgaggag 60
aaaatggaat tcatcactga agacgctaac ttttgataga gggatcatgcc cttacgccta 120
aaaaatgtag gcgctacata ccagagattg atggaccaga ttttcaaaca atagatggta 180
caataagttg aggtctacat tgacgacatg gtgggtcaaat cccatagcat acc 233

<210> 29153
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29153

ttttttctgg tatcaattac gagcgtctcg atatactacg ggacataatc ggacatccga 60
 gtaaaaagtt attatcggtt gattaggcta agagcttggtg ttttgaattt cgagcgtctt 120
 gatataattac aggactcaat cagaaatccg atttaaattg tattcattcg gacatccgag 180
 taaaaagtta ttgtcctttg aatttgctac gagcttccgg tttcaattac ctgcatctcg 240
 atatactatg agacacaatc ggacattcga gtaaaaagat atcatcggtt gaatntgctc 300
 agagccttcg ttgtcaattt cgagcgtctc gatataattac gggattcatt cagacatccg 360
 agtagaaagt tattgtcatt tgagtttgct catagcttct at 402

<210> 29154
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 29154
 tgcttcttga aaatgggaga attgacctag gctttggctt ttaaaaaaac acttattgta 60
 ggtgaaatgc ttggaccaat ggaatagcaa ggaatcctta tcttcttaat ataagcactt 120
 tgaatgacca ttaaaatgac taattggaag cttggacaac tcttgatgtg ctctccacga 180
 tctgcgccat gccttatatg gcttcttgta cttttctaac actaactata aaacgataaa 240
 gtagagtctt gccataaatg gtaaaaattg tttttgc 277

<210> 29155
 <211> 548
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29155

cccaacgcgc gctacactca gcaantttga atantcncac tatagntatc atcgcgatct 60
 gatgatgaca aacaanaann acaaaaaaaaa agaaaaattg agttgtntca atgcnatata 120
 caggcgaatn gagctcggga cacgggatac tctagagtcg agctgcacgc acgcatgctt 180
 ttaattctta gtcgatgacg aagcacgatg aagtgaacca cgatcacaag caacgtatcc 240
 taacgaccgg ctggagacaa aatgaaaat acgaaaggga tggaaaagtc ggagggccta 300
 acaagcatcg cacatgtaac gacgtcacct cgtcgcatca tcttgttatg caggaaccga 360
 cggatggcta cttaaggacc ttcacctcaa gttcctttgc gcgatccatg ccctgaacac 420

cacttggtggg atgggaatct gggcacatgg atacatcaag caatacgga tgattctgac 480
 attacacaat caattccaaa gaaacaggca acggcagaac gtgatggcta cacaatgaac 540
 gaatgctg 548

<210> 29156
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 29156

tttattgtgt tctaatacag aatttctcct ggcgatttct ctgaagtttg tcggacctta 60
 aaaaagggtat attatgtgca tgtagaaat gatgtgactt ggccttgggt gaactacaag 120
 cattatcgat aaacattagt tattagtttc ttcattcttt tataatatag gttgatcaga 180
 gtttgtgtga gaatatgatg aactacaagc atttaccacc tggtactatt tcatttcagc 240
 ttcttaaaca gctacttcat tttttttatt tggatatttt tttgctcaaa aacatgttga 300
 taaaataaaa tttgtttaga taatatgatg agaatatgat gaac 344

<210> 29157
 <211> 329
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29157

aagggcagga gcaaaagggg ggcccaaaat aacaacatac aagnataggn atnaaactct 60
 caggagaaaa aaaatctatg cactgatcga tatttacagt ataataagat ttatacaatc 120
 attcaattac aatcaatcat gtataataga tgttcggatg attaaaacaa ttataaagta 180
 atacaaacga taattttgtg tttaactaat aatataaaat tgttttacat tatcaatgtg 240
 taggcattac agtctacaag attatattta gactgtatat gtgcatcttg agaaataatg 300
 agtctttaat aattatggat attttgact 329

<210> 29158
 <211> 318
 <212> DNA
 <213> Glycine max

<400> 29158

atcttttacc tcacgtctc tcacagtctt tagatttggg agccaatcca atccttgtgt 60
tcggactctc agccacttat gatagccgcc gatgatccca ttacggcttc ccctaagctc 120
tctgtccttt cttcacgccg catcccatgc cttgcgaact ccttatggta ccctcgcgtt 180
gtggtcactg aaaccccggtg cgatgaaagg cgtgatgcta tcgtctgatg gcactcctct 240
catgaggtag ccaaacggtc ttatggcgag gacgggatta taatcaatac aaccccttgt 300
tccatcaagg gaaccttt 318

<210> 29159

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29159

ttccccagcc ccttctcatc aatggacgcc tttttaagtg ncttacaagc gaaagcgagg 60
gnaaagggga gatcacgcc tctcctctct tgaatttcta tcgctctccc tctcactctt 120
tgactgcctt tctaccttct tcagttatcc ctogatatgt ccttcttttg aacctccctt 180
tgacacccat ggttgctact ccattcacgc gtggtgactc ttccgtaact gaacaccatc 240
gatttgtcaa gagcctcaga ttcacatcta agtgaaacaa aacgacgtcg tcttggaaga 300
tgactcaat tctgaattcg caagaggtgt agatgatagt gatgctgggg ttgaactcgt 360
tgatgaagga ttggaatgag ttacaacacg actctgagga gttaac 406

<210> 29160

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29160

agcttttctc ccacgaagag tctctgcggg tctgacaaaa ttgggcccac ttctccttgc 60
taatgtcgta cttttcgcat agtgtcatcg acactttcct tgtcggctac aagtgcctat 120
ttcaacgtca aatcagactt aaattttctc cattgctccc ccacagtctg aagtattttc 180
ttttttgtcc tcagatcaga tgcttcaggg atatcanatt caacctaaca aatggaaaat 240

cacattctat tgttactaaa ttataatttg attgttaatc aacaaaatgc anaatttaac 300
 taaaatacta gaatatactc ccatatcaaa tcctnttaag cagcagagac ttgtttccat 360
 agtcgtatgt cacatca 377

<210> 29161
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 29161

agcttccatc attactccac ctctttttgc aacagattgg atagtggaag ggccactttg 60
 ctaaaatcct tgataaagcg cctataaaac cctgcatgac caagaaaaga acaaacctct 120
 cgcacgcaag aggggtaagg caattgtgaa ataacagcta taccttggtc taccatgaag 180
 tgacattttt caaaattcag cacaagggtta gtttcaatac atctactaag aactctatct 240
 agactatcca aacatgtatc aaaagaggat tcataaacag taaaatcatc cataaacacc 300
 tgtatgcaac tctctaaaaa atcattgaaa atgctaagca tacaccgctg gaaggtagca 360
 ggggcgttgc attggcctaaa gggcatcctc ctatagacaa aagtgcctaaa ggg 413

<210> 29162
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29162

tggaaggtag tcataacctca canaatatat gtatgtgtgt ttatgtagtt agataccttg 60
 gatatgcatg tatataacaa acataacctca caaaatatat atatgtatgt ttaggtagca 120
 agataccttg gatatgcatg tatatagcaa aaatatctca caaaacatat atatgtatgt 180
 ttaggtagca agataccttg gatatgcatg tatatagcaa aaatatctca caacatatat 240
 atatgtatgt ttaggtagca agataccttg gacacacatg tatatagcaa aatacctcac 300
 aaaaatatac atatgttttag gtagcaaaat acctcatgga aaaagaaaaa gagataaaaa 360
 agaaaaaaaa ataataataa gttgtctagc taaaaaaaca acatgcttgt gaaaagagat 420
 aact 424

<210> 29163
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 29163

agcttgtaga tatcacactt gtaaaaatta ctgagaattg gttactttga attctcgagc 60
 tgaaagtttt actgaatttt ctagacatct gaaaaaaagt tataaaaaaa gaaccagggtg 120
 gtttgataa aaggaaaaaa taataaaaat cacacaagtt ggcagaaaaa tcagtatcca 180
 aaaaaaaaaa gagtgaagg gaagtgtgct tgttgttttg gctgaaaatt tattctataa 240
 ttgtgccta tgttatacca atcttagttc cgaaatttca atagaaaatt agtttgaaaa 300
 caagtgccaa agctagaggt ttgttgagtc ttttttttat agtttttttt actctactct 360
 agagccattc taagttttct tttgagtcct agcttgcttc tatgtccttt 410

<210> 29164
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29164

tctcgcccaa ttntctataa atagggggag aagtgaagna gtaatggttc agccccttag 60
 gcacttctct ctctttcgaa tttgcttagg aaaattgttt cgtgaagaa aatccaaacc 120
 aaggcgcttc cgtaacgttt cgtgggtga tttcggaag gttttcgacc gtacttcgac 180
 gttattcatt cgttcttcat cgttcttcag tttcaacgg gtaagtacct taaaccaagc 240
 ctttcaattc attctatgta cccgtgggtg tccacatttg gtttcatgta tttttattct 300
 cgttttcatt tactttttat accccctttt gacgtgctta agccatatat ttaagtaatt 360
 tctcgcttaa cctaaaaata aaacaaattt ccaccgateg tttgaattgt atcatccgtt 420
 aatttcg 427

<210> 29165
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29165

agcttcatgt tttagttaag cattttctac taaaatatta atttggtcct ctattttaatt 60
 aaataattta atttattatt ttttattatt aaaattttta atttaatccc ataattttta 120
 aaattattgc aatggcatcc ttttcgatta attacaaaaa acgacatcaa cttcttgat 180
 acatgataca acaaaaataa caacacatat ttatcacgca agacacctta attaaaaaaa 240
 attaaaggaa ataattattaa tggaataaat cgtatccata gaaaaaaata ttattttgtg 300
 tgtactcaac ttttcaatga agatcagtc tcaactttta ctaaactatt tcatataaat 360
 attaagataa aaaaatatta catcagctnt gataataaat aaattcat 408

<210> 29166
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 29166
 tgtgactgtt cgaaagcaaa aagatgaaac tattgcagct tattttattt tgatcaaaac 60
 tcaagaagaa actcttgag ctgcgaaaat tattgctgca cctttagtag aacaattaca 120
 gaaagagatc tctccaagaa aatcaggcct agttatttgc agaccccaaa gttttgatca 180
 agaagcacia caaaatgaga cttgtctacc tgccctgaac atttttgctt gagcaaatta 240
 cactcgcatc ccctgagggc tagcgcttat tacactcaac ctcaactcct ttttttttat 300
 catatacaag actccattgt atttttacca tccattacac tgtgccctg tttacgctgg 360
 aatttggtta acaaccgcta gtctaagtta attgcttgcg agatcaacta gtgaatctca 420
 ggagcatgg 429

<210> 29167
 <211> 398
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29167

agcttgactt tggtttagac atgattggta catgatttgg gacttgtagg atttgatttg 60
 ggcaagattg gttgaaggga agtgtgattt tcgaaatctg cacttatgca gaatttttgc 120
 tgtgaaattg tgcagcagaa ttttgcacaa gtgcagaaaa atgcttgtgt gtggttggt 180

gtggaaagtc tagtgcagaa tgagttctgg atgttttcta gtagatccca acggtcacaa 240
 tgtaggctta tgtactagag acttccagta aaattttcga gtcgatccaa cggttaacga 300
 attggatcga aggaattgtt actgggggtct ttaagcgaga aaaagctgtg attntgggtg 360
 gtgtttgagc acagttttct gcctttgctc tgttttgc 398

<210> 29168
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29168

ggtaagctga aacatatcaa gaaagttttc cccaaaactt tgattataga gaaaataaaa 60
 aacacaaaac attaatatag cattgcttct tcttagataa cataaaccaa tgaaaacaac 120
 ttgctttgct gtccttttga cgggtgtggtt ctttggatta aaaagcttaa ttttatttgt 180
 ttctttctta cttttgatat atcgtagaaa ccttgtttac ctgcatgcat tggcagttca 240
 tgtaaatctt ttatttgctt gtaaaaaatt ctgtggtctt tttgtcatcc ccatanggaa 300
 atggagtgat ggatgggctg tgataagagt tgatattgga taaactatnt ggatacagta 360
 gtttcagcta tttaatcttg ccgtcatgct gtggcacaat tggatatctag tgcttgtttg 420
 gatgacttat 430

<210> 29169
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 29169

agcttctcaa ggtgtacgga gactcgacat tggtgattca ccagcttaga ggggaatggg 60
 agactagaga ccacaagcta ataccctact aggcctatat caaggaattg gctggtttct 120
 ttgttgggat ctcttccat cacgttcccc gagaggaaaa tcaaatggtg gatgcgcttg 180
 ctactttagt gtccatgttc cagctgacac tacatggaga cctaccatac attgagttca 240
 ggtgtcatgg cagaccgcga cattgttgct tgggtgaaga agagcaggac agtaagcctt 300
 ggtattccga tatcaagcgg tacgttgaaa gcaaatagta cccaccggag gcgtttgaca 360
 acgacaagag gatgttaagg agattggcag atggcttctt cttg 404

<210> 29170
 <211> 423
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29170

tntgaaaaac ctcatgacag aacattgaca aaggaatcat ccttttactc taagaaaacc 60
 acaatctagt cggaaaattg aaatatgggg aaaaaaattt agaaattaga ttttcattta 120
 attcaactat aaaaattaac tcataaaata agtattaccc cacttatata ttttattttg 180
 atattagtta atgtaagact ttattttttt caataaaaac ttatgtaaatt ctaggggatg 240
 atcctctcca ccaaaaaaag taatcttctc tacacacttt ataacattgg attaccaag 300
 tgcttttctc taattttctt ctactatctc tatgttacca aaacaaaaaa cataattata 360
 tttgaacact tttaaatcct aaatacttca ttaaaaactn taattttctt ttatcttttt 420
 ttt 423

<210> 29171
 <211> 405
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29171

agcttattct tataattcat gctaaaaggt gcatagaata aaaccaatta ggacactaaa 60
 gaattaaaca tatagaactt cttaatgacc tcaaaacata gactccgtgg agataatgct 120
 tctcagtatt ggcggccacg ccaagtgcaa gactgcgagg ttgtgttagg gatgggagcg 180
 acggcttgaa atatgtgtat atcacctacg tgtcttgtac gacggacatt atacctcact 240
 catccaaacg agtagtgtat atcacctacg tgctntgtat atacaacatt ctttcatatg 300
 acacattata ttccaagcta tatattatca gcgagactct cgtaactgac ttagctgcta 360
 tgtagctctg tgttgacaat aatacgatag catctantac actag 405

<210> 29172
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29172

agaaactcag ctttctttca caatcaatct gtctactaac taacaannnc ttantgcaag 60
 ttctcattct tgttctttct ttgcctaaca tacacacttg ctcaaactca tgaaaagaaa 120
 caaaaactca atcacagtca tgcattcaat tcaaaaccaa atcatacacc aattttcaca 180
 caagataaa agtggtttat tgccatatca tcaaaatcaa gtcaaactgt tccatatact 240
 tcagaataag caaaccaact acccataaat aaaactagca gtgtatacaa acataaaaga 300
 aatactgtac tgaaaccgta atcataataa taataatcca aaaagcaaaa agcatcatca 360
 ggaatcaaca atgtcaagag tgtataaatt agggaataag tgagagcaac aacttctcca 420
 gatgacgaat aagaaagatc 440

<210> 29173
 <211> 386
 <212> DNA
 <213> Glycine max

<400> 29173

ttgcttatgc atgtctagag agttcttgag agagaaaggt ccaagtttca gagagtttga 60
 gagattttgt tatgtgaaga tctgcagaga ctagagcttg aagaggaagc cgccctgaga 120
 gcttgagatg agtttgtgag tgattgtgag gtcttagagg tggaggagac atccccacta 180
 cttgtatttc tgtaatgttt tatctttctc ttgtctttgt tgtaaaggaa gcttcccagt 240
 tatggaaagc taaatcctct gttggatttt ccttgtaggt acttgatgta aatatctttt 300
 tatctatcta atgatgtttt gtgtgttctc tatgctatca gtatttcatt atagtatgct 360
 ttaccttga tcacgtagat gcatgc 386

<210> 29174
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29174

actaagctta ggctgctcga ttgctccagg ttgctgcatg gattggtata tgtctgtatg 60
 gnggtcagca gaggagcaca aaccacaaac ccttgcaaca ggtatagatt tctgattcaa 120

ggccagctgg gttaccaagt taaccaatgc atccagtttg ccttcaagct tcttagtctc 180
 agatgatgca gctgagtttg tagctacctc atgcactcct ctaatgacta tggcattatt 240
 tctggcgcta aactgctgag agttggaagc catctttctca attaaatttc tggcttcagc 300
 aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc tctccatatt 360
 actgagtcct tcataaaaat attggagaag aagctgctct gaaatctgat ggtgagggca 420
 actggcacat ag 432

<210> 29175
 <211> 404
 <212> DNA
 <213> Glycine max
 <400> 29175

tagcttgcat tgtgctaagc ctaaagaact cctgttttg aaatattttg tatttgggct 60
 aagcgcgcaa gggcagctgg ctaagcttgc atgtcgcggt aaacctaata acatctttgt 120
 tttgtaatat ctcaaatggg gctaagcgtg caggcacagg ctaagcgagt catgcattcc 180
 cggtgaagcct gtggtgctcg ctaagcggat tttgcaggaa atttcctcct gcaaaactct 240
 ctaagcccta tgtggcatgc taagcccaat aatatctctg aagttgcaat ttcatttttg 300
 ggcttagcgc acaagtttgg gcttagtgcg caaaaaaaaa aatcaaaatt tcttgtactt 360
 ctatttttgt atgtctccta cgcagcaagc ttagtgcgca ctta 404

<210> 29176
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29176

tataagaaca aaattgccgt aatcatttcc aaatangctt gngatttagg acgcatcaac 60
 aagaatcaag ccgaggctat tgtgcaagca atcaatgggg caaaacacac caaatgatta 120
 taatgatgga tggctcaaat tctcaciaag gtaaaatcat cactttcaaa ttgagctttc 180
 aaaactatca tgacatgtag agaagaatta aggatttcaa gtcacaaaat gtcaagaact 240
 tttattttca aaacaattac ccatttcttg aacatatcct ataattcaaa gaaaaacatg 300

caaagtcgta cgtgcacaca aaattgaccc aaaatattaa actgaaaatc cgacgaaact 360
 aacaacatta acaaattaac acaactaaca aattaacaaa gccaacataa ctatcaaaac 420
 caaa 424

<210> 29177
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 29177

agctttatca tgcgtcacctt ttaaacattg ttgtgcaatc tttcaacata accatgcaag 60
 cagctgcata cctatgcaac ttgtctaattg tgaaaaaata attgggatta attcatccct 120
 ttcgcaactg ttaaattgtat gttatgagtc atgacaagat tctagtcagc atcctttctca 180
 gagtttagtg ttcgtctttt tcaaaagagg ttttctttct ctcttttctt ttttttgtgg 240
 attcgtgaat tttttgttat tgatttttta tgtttactta ttgttatgaa ttaccaaatt 300
 cgtaactaat gttatgatgg gtcctatata tctcgatttc gttgtgtatc tagtttaaat 360
 atataatgga atcatgattc tattaggagt gaatacac 398

<210> 29178
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29178

ntgagccaaa atcctgactc accataaacc ttgtctcagt gngttatgtc aatccttacc 60
 ctcggaagca aaaaaaaaaa gaagaaaagg aaaatttcca atcaaaggaa aaaatagagg 120
 aaaggaaatt cccaatcaaa gagtgggaga aagcaaaaag aaaagaaaga aaattcccaa 180
 tcaaagaatg ggagaaagaa aaaaagagaa aaggagaaga aggaaagaaa gtcctgatc 240
 aaggatcgaa agaaaacaga agaaatgtgc agagaggtct ttggaccaga caatatctga 300
 acaatacgga attgtcacca aatgaacaaa agaaagaaaa ggaaaccata acctannagt 360
 ggtctttctta ccaacaaaaa tcctgtgcgt 390

<210> 29179
 <211> 393

<212> DNA
<213> Glycine max

<400> 29179

atcttgtagc accacttcac cctaccttgc cttttgagag cggcaacaac atccatcgtg 60
gtacctgtct tccatttaac atgctcagtg taagtaacaa agtacgcag accatccctg 120
agaaagttct taaagactct acgagccaaa caacgaatcc cgagtttcgt aatgttctgc 180
atgttgctgc acaacaccac cttgtgcccc ttggctcctc cctgcatcc ctcccatgac 240
caccgtatcg gccgctgtca cctccaccac caccaccgaa gccatgcct ccaccaccac 300
cacggccaat gcgggtttgc acttcatggg tagtgatggt tggccatcaa ggtcttcgcc 360
gtgcaaactg ctgttcacaa ctctcgtcc ctc 393

<210> 29180
<211> 416
<212> DNA
<213> Glycine max

<400> 29180

tattccaggg acatgttatt attatgcaaa gccttcgttg gtagctcctc caggggtccat 60
tctgtcagta gagcagttcc ttgagcaggt ggccttgctt agagctcaac ccttgattat 120
gagaactggt ggaaggtttg cagcccaggc acctcaaaa gagagatcca acgaggctac 180
tgctcctcct gagcctacac ctgcacaggt tgaaccaatg ctagctgac cacattcttc 240
aatggcaaat ccattctctc ccaaacttga agtagctccc tcatcttcac ctattattat 300
catctctgaa gactctacaa agtcacgtc tggagaagat gttactctct ctgattcccc 360
tattttccat ctaataaatg aggaggatgc tcagactcgg gatacccagg atctgt 416

<210> 29181
<211> 367
<212> DNA
<213> Glycine max

<400> 29181

agctttcatc tagccaagtt tatacaaagg tgttacaaga gaacctaacy attcctaatt 60
atatgggcca tcaaattctat catgtgctga cagtaattga ttagcccatg aatctcctcg 120
ggggcagtag acacttcggc catggctttt gctttggcta acagacgcgg gaggtcttga 180

<210> 29184
 <211> 414
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29184

 tcaagttgct aggatagcaa cgtgancggt ccttcagttc gtcttgagat gaaagctcca 60
 acaggcttct tttggttggg atgtgtgctc tatctcgcaa gattgcatgg tcaactagcag 120
 tcatattctc aatcaattcc atggcttctt caggggtctt caattttatt tttccccctg 180
 tagaagcatc taaaagttgc taggattgtg gccttaaccc gtcaatgaaa atatggagct 240
 ggattggctt tgaaaatcca tgagtaggcg tctttcttag taaccacga aatctttcca 300
 aagcctcact caaggactcg tctàgaaatt gatgaaagga tgagatgaca gctcttcctt 360
 cagcagtctt ggactctggg aagtatntct tcaagaaatt ttcaaccact tcat 414

<210> 29185
 <211> 408
 <212> DNA
 <213> Glycine max

 <400> 29185

 agcttttccc ttcgtagcat atagataaat gatgtttata tacttgtaa attaggtata 60
 tgtatccgcg ggtaagagat atataggaaa aataaaagaa aaaaaaatag attatgtgaa 120
 aataagacat taaattaaaa tactatgcaa atataattat aattgttaat agttatgact 180
 ttttaaatct cctaaactac agggatatcc ataacttaa ttagttggtat atcgacaccc 240
 atatcggcta ttaactattg tcttgtttat cataattaga caatgacttg acatcatcat 300
 aaataaagag aaaactagag ccaagatttg ggaggacac aactgatctt gacatttcat 360
 gatgcagatc aatcatatg gaaggggcac atgacgtcaa taagcaat 408

<210> 29186
 <211> 430
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29186

tgtgacanat ctcttgagaa aataaatatg ctcaatnntt tggtcttttt gaatncaana 60
gcaaaccaaa tgcaccttct ctaactcctt gatcataaag atctacttca gaagtgtccc 120
cttttggatc accatgataa acttctctgc ccatccaatc cgtatcaaac agaaagaagg 180
gaaacatga caactgcagg tagacaggat tgaaatgaac ataagaagga tttcaaattg 240
gaagcaccaa cactaggcta atagcattca caacacaacc gacttgaaaa cacaatatc 300
aacagaaacc ttgcaaata aatactagta cataccaag tgagagccat tacaaccagg 360
acagaatgca tagcaggtgg caaatgcctt aaacttgta acaagtttac caatactgct 420
ccaggcccat 430

<210> 29187
<211> 407
<212> DNA
<213> Glycine max

<400> 29187

agcttctaga gttaactaca tgaagttgcc tcggtaaaaa cgatgccag ccttcgttaa 60
cagttggatc ttctcgaaat ttggtttgca acttcacaag acacttgtcc atgatctgac 120
cgttgggatc ttgagaaga tgtctggagt gtgctagaag cttccgtttc cgagagcatc 180
tcttatttaa gcatctcagc ctttgctttc gtgtagctta ggaaaaacgt catttcttct 240
tctttctttc ttccaaagcc atttctaaag tcccaaacac tttctccatc acccatagcc 300
aacattagcc accacaaacc atcgttgttc tccattgaaa cccacaccg agaggaaccc 360
ttcaaccgaa gcggaatctt ccaacttggc ttgcggtttc agtagag 407

<210> 29188
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29188

ggtagagtta agtctcgtac tggtttaatc tattacgggt tattttntat tcgatnacat 60
tgnnggntga gacaatgatt gattttttca agagtctcta cttaattga ttaccaagta 120
gattaatcga ttacttctct cttgtttaag ttgctcagaa gtgaacaaga acattttaat 180
cgattacctg ggtcatctaa tcaattacat tggtcttgag tggttttcca gatgttggac 240

ggacacttta attgattact tcattgaaat atttgattac tttatagatt ntatcgattg 300
 caagcgggta taactatattt ctctataaat aaccagcttg tgttcacatc tatacatcat 360
 gagatcatta gtgaacactc aatacatctc aaaaattact tcttagtctt agaatga 417

<210> 29189
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 29189

agcttgtctc atatatgtcc aggaaggaca aggcggccga aggaactagt tccgctcctg 60
 agtatgacag tcaccgcttt aggagcgtg tacaccagca gcgcttcgag gccatcaagg 120
 gatggtcatt tctctgggag caacgcgtcc agctcagggg tgacgagtat actgatttcc 180
 aggaggagat aggtcgccgg cggtgggcat cactgggttac ccccatggcc aagttcgatc 240
 cagaagtagt ccttgagttt tatgccaatg cttggccaac agaggagggc gtgcgtgaca 300
 tgaggtcctg tgtgaggggt cagtggatcc cgttcgatgc agatgctatt ggccagctcc 360
 tgggatatcc gttagtgtg gaagagggcc aggagtgtga gtat 404

<210> 29190
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29190

cgcttccttg attcctttgg ttcttcttta ctnccttttt ctcttngttt tctgcagctn 60
 gnaacttcta ggtaagtnta ttttaattga taatacatc tatgcatgtt taggttataa 120
 attttaagtg ttatgtgtta agtatgttta cgtaggctc gttttgtatg ttaatgttat 180
 gtatgttttag gtggtattta taaatttttaa gttgcaattc gaaatattaa tattatttat 240
 attatatgta tatgttataa ttttagtcag tatgttcgta tttatattat aggatacatt 300
 acagctagtt tatttggttaa tattattagt ttgagttttg tattttatat agtagattag 360
 attcacctaa aagattatga atagcttaaa tttttatatg cgacatta 408

<210> 29191

<211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29191

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agctttgtta tgtcctctcc cctcggcggg gatttcttct tcggcaaagg cgagatagtt 60
gttggcagtg atattattga ccagccctcc gaaaccttct accgagatgt cttgggccac 120
atgggcctcg ttcaaaacct tcactagtag agcccgatga ggctcggagc tcatgagtaa 180
ctccaacagc gagaccctgg ccgggggtttt gttgtgctgt tcgataacct tgaattcgct 240
ctgctgaatt atacggagga actcactggc ttcctctagt gacacctcct ttttaccatc 300
ctttttctcc ggaagacctt tcgcctgaat atctttattc gaagtgaggg gtgcttcgtc 360
atcttgttcc tccaccactt ttgctttccn cttgacgt 398
```

<210> 29192
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29192

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ctgatcaaat gactaaaatt aattggcaaa aaagatatnn atcngattgc caaaccaact 60
tcactattcc tagttagaaa ttccaatatt ctatattacc tgctcattag ctgtaggagg 120
aaggcctcca acatacacc gcctagcatg tcatgtagcc tgtaaattca gtacatcaaa 180
gataggccat aatcagggaa agtcatgcta aacttaaaat gaaacttaaa taagactgta 240
gtcagtctca gcaagcctcc atactcggaa agactaaact taaaatgttg tgttgacaaa 300
gttagtgtgt ttctactctt tttctataat gactcttttt cttctcaatg aaagagaata 360
ttttctccca gcagcacagt gatactaaac aaacaaaagc gcaataaana gaaacacatg 420
taaaaagaa 429
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<210> 29193
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 29193

agtcttttag aaaaatggcc ttagcaaact tcttatttcc agaaggaaat tcaatcaata 60
 gacctccaat ctttaatgga gagggttacc actactggaa aacccgaatg aaaattttta 120
 ttgaggcaat agacttaaata atttggaag ccatagaaat agggccttat ataccacca 180
 cagtagaaag aatcacaata gatgggagca caacaagtga aagcataaca atagaaaaac 240
 ctagagatag atgggtctgaa gaggatggaa gacgagtaca atacaattta aaagccaaaa 300
 acataattac atctccctgt ggaacggatg aatatttcag ggtttcaaata tgtaagagtg 360
 ctaaggaaat gtgggacact ctacaattaa cacatg 396

<210> 29194
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29194

tagaagagcg tcgaggagaa ggctttngta gtttgtatac atcttaagaa aatcttcgag 60
 ctgtactagg catgatcgta agaaaatata aaattttaaa attgttttta gttttcgtaa 120
 cttaacgttt tttcattttt tgggtctgta attttttttt ctaattttta tccttatata 180
 ttgatgtttt ttcaatttta attcttgtaa gttttttttt tcatttttaa tcattgtaag 240
 tttgtatttt tcaatttttag ttttttaaga ttctaatttt tttatttata gtttctataa 300
 atttgtgttt acagaaaata aaattgaaaa aacataaacc tacaagaaat tagaatgaaa 360
 aaattgaact tatgggtatc aacaataaaa aaaacatgag aaaaaaaca 410

<210> 29195
 <211> 355
 <212> DNA
 <213> Glycine max

<400> 29195

ttgcttctta gtttcagatg atgcagatga gttttagct acctcatgca ctctctaata 60
 gactatagca tcataatttg cgctaaactg ttgggagttg gaagccatct tctcaattaa 120
 atacctggct tcagcagggg tcatgtctcc aagggtcca ccaactggcag catctatcat 180
 acttctctcc atgttattga gtccttcata aaaatattgg agaagaagct gtcacaaat 240
 ctgggtggtga aggcaactgg tgcataattt tttaaacttc tccaatatt catataggct 300

ttctccactg agttgcctaa tgccataaat atcctttctg atggccgcgg tccca 355

<210> 29196
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29196

aatactcagc ttacggaaca cctagcttgg atttcttcac tggtactagg tggtcactca 60
aaacagctga aatgcatagc ataggggtca aggacccttt ggaatagccc acttccccta 120
tttataggag aaagggggaa gaggttgctg cccagctcgc ccaagcgagc aggtggcttc 180
ctttggaagt ttctgatgc acccccaaat tcataagttc cccccctttt tcgtatttta 240
tggaagagtt aaggaagtat tacggaagcc tatcagactt gattntattc ttttttgctc 300
ttcctctcac caatcttaag tggaaaaggc ttaccagggg ttacgggaat ttacggaag 360
cattacgaaa gcctcggagg tccattttca gaaaaagcag ggaggtgctt g 411

<210> 29197
<211> 403
<212> DNA
<213> Glycine max

<400> 29197

tgcttatatc ctcaggtagt tcagcaaata cttgcttcat ttctccaag ctcataatttt 60
ccaaaatgga cggccttggg gcaaccctca caatctcgcc gccttttaggt tccttaactc 120
gagcctcggc tttaatgatt agttctgaat ttgagcttgc tccacattta attataaatg 180
gtgaggtatt acccgattg aattgaagga cgttccactg tgccacatca gttccagatc 240
cagagcctgt atccgttgat ggcttgcgag aatgtgatag attctgaatg cggtcacatt 300
cttcaggaat tgactgcac ataaaagagg gattaggaat cccaaaactc aattaaggtc 360
acgctcagac acagattcag atgccagaaa tgctgagaca gga 403

<210> 29198
<211> 385
<212> DNA
<213> Glycine max

<400> 29198

tcttcacgag tatttataag ataagaaaat aagatgtata tttatTTTTc aatattaaac 60
tttcttacta aaattaaccc tttactttta gagaagttaa ataaataaat aaataaatct 120
ataaaagtta agggcattag ttgattttac tttataaaaa ttttaatttat ttttaatttct 180
cattttcttc tcctacaagt agctaagtat ttctcctagc tagctaaata gtatgatttt 240
tcctttattt atttgtaatg tctgtgatat gttgcaagtt tcatgactaa tcctgataaa 300
attcgaaaaa gccactagcc aagagatata aagaatgata atatgttgag tcctgcacat 360
aatgtttgaa cggacaggca aaagt 385

<210> 29199

<211> 402

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29199

tatgctttac ctgtcaggct aagcgccaat atgcttctat tttttagtcc tttgaataag 60
gctaagcgta gctgttgccg taagcccttg ttatgtgtta aggaggttga gctaagcgtg 120
ccttgctgca ctaagctctg ttggatcaag tggcctcgga ataattaaga aggggggggtt 180
gaattaatta ttaacgaacc tttactaatt aaaaatctat ccttcttaat gttaccaaaa 240
gtaaaagcaa taataaactg cacaacaaaa attaaagagt gtagggaaga agaagacaaa 300
cataagagtt ntatactggg tcggcaacaa cccgtgccta catccagtcc ccaagcgacc 360
tgcggtcctt gagattcttt tcaaccttgt aaagtccttt ac 402

<210> 29200

<211> 300

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29200

gaggattatg gggtagccat cacatgtggn actttgttgc ggtcgagcga ngngncacaa 60
caagntttcc acatgcacaa agcgcgcata aaccacccat tccctgggtgc ccaccttcaa 120
ctgagctcac gtactccac gtagcccata tcctcttttc tctcaacacc ggggtcccat 180

<223> unsure at all n locations
<400> 29203

tgcttataaa gaaaaatgat ggcattgattt taacctaatc acactatatt gaaagctatt 60
gaagaagttt aattattttg atgtgaaaca tgtgtctact tcttatgact catccatcaa 120
gttaaagaaa aatttgagta aaggaatttc ttcacataaa tactctcaaa ttattgattc 180
tttgttgcatt ttgacaaact tctataggcc tgacattgca tatgtagttg gtagattaga 240
aagggtatact aataattctg atcattctca ttggattaca ttagaaagag tttttagata 300
cttaaaagga atcattaatt atggcattca ttatacatgt tttcctgcag taattgaagg 360
gtttagcgat gcanattgga tttctaattc tgatg 395

<210> 29204
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29204 .

tgtagaagtg attgtgaata gtggggattg ttttttattt gtttgctttt ttgnnttattt 60
gtttgtttgt tataacttgt attagctagc ctaaaattgc tcaaccagac gaatgtatga 120
ggtgcttaaa ttaagggttaa caattgcaaa tgttgtgaca cacaattcct gttgggcaaa 180
gtgtcaagat tacaccaaaa tggctggctc gttctgatgt aattgtaaag catataagag 240
catgctatgg gttagttata taaccaatga agtaaaatag caaacacgta gaagttggaa 300
gtttggtcaa agaataaac aatccggcaa ttattctatg caattgaata tacaacaag 360
taagacaaga gttatacttt caactctatg tcatgcatgc ttgatgcttc 410

<210> 29205
<211> 399
<212> DNA
<213> Glycine max

<400> 29205

tatcttttat agatcaacaa tgagctgtcc gaaagacggc catcccggt cctctttact 60
gctctccagg attggcatgt gcttctcatt gcttgctaac cctttgaact gtttttgtga 120
tggttgctgc tgcatttgtg cagtgttaatt agccaatcag caagggtat gtactttctt 180

aaaatgaaca gcatcacata acaattaata tatacatacc aaagcccaaa gaaaaataag 240
 attttacagc caaaggatga aatttacggt ctgtctgttt tgagaaaatg ttctttgttt 300
 ccatttcctc ttttcacata taatttcaag gatgctacat tctttcactc cgtttccgat 360
 ttacagatc tatatcagtg atatgataaa gacaacatg 399

<210> 29206
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 29206

tgccagaagt tcttagttgg ggatgctggt tctgtttggt actaagatga tgaggaggcg 60
 gaggatgaag atgagctggt agataatgat tctgaagaat ctgaggagta taagttcttt 120
 gaaaaagtgt ttgcagaaga tggtagacct aggagatatt atgagaacaa tcacaaggaa 180
 ggagatTTTT attgtttggt ttgtgggggt attgggaaga aggtatggaa gaggtttaag 240
 gattgtattg gactaattca gactccact gccatattaa ggacaagaag gaagcgagct 300
 cacagagcct atgcacaagt catctgcaaa gttgtagggt gggatatcga tcaaatgcca 360
 gctatttgtt taaaggattt ggattcctca ttggctggtt caaagaagct tttcgtga 418

<210> 29207
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29207

ttgtcattct ttcagagaga tggtaggacaa actactcaag gtcagttta tcagagaagt 60
 caggtagtct acctagatag ccaatgttgt catggtcaaa aaagccattg gcaaacggcg 120
 tatgtgcatt gactacacca acctcaacaa agtgtgcacc aaggacacat atgctttgcc 180
 cagcatcgac aggtactcg actacgtgcc tgtgttccaa gtactgagtt ttcttgatgt 240
 ctatttagga tacaacaaaa tcagaatgca caccacagac aagagaacac aacattctta 300
 actgaagatg ataatttttg ctgtagggtc atgccctttg gcctgatctt canacaacag 360
 atagaccata atcttgaggt ttatgtgaat gatatg 396

<210> 29208
 <211> 416
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29208

 ctaagcttcg gctgctaatt gctcatgnng cagttttttg gttatagnct gatggnggca 60
 gcagaggagc acaaaccaca gacccttgcg acaggtacag atntctgggt caaggccagt 120
 tgggttacca agttaaccaa tgcattcagt ttgccttcaa gcttcttagt ttcagatgat 180
 gcagctgagt ttgtagctac cttatgcact cctctaata ga ctatagcatc atttatggcg 240
 ctaaactgct gggagttgga agccatcttc tcaattaaat ttctggcttc agcaagagtc 300
 atgtctccaa gggctccacc actagcagca tctatcatac ttctctccat attactgagt 360
 ccttcataaa aatattggag aagcagctgc tctgaaatct gatggtgagg gcaact 416

<210> 29209
 <211> 389
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29209

 agcttgtaga ggatgcttca acggaggaaa agaaagaggg agagaaagag agagggggga 60
 gcacgaaatt gaaggaagaa aaaaggagag aagttgaact ttgtgttggt tctcacaaga 120
 ctctcattca tcaaagttac aacaagtgtt acacatgctt ctatttatag actaggttagc 180
 ttccttgaga agctttctta agaaaacttc cttgagaagc tttcttaaga aaacttcctt 240
 gagaagcttc tttgagaaaa cttccttgag aagctagagt ttagctacac acacccatct 300
 aaaaactaag ctcacctcct tgagaagctt ccttgagaag ctagagctta gctacacacc 360
 cctataatag ctaagctcac ccncatgac 389

<210> 29210
 <211> 341
 <212> DNA
 <213> Glycine max

 <400> 29210

agctttctca atatttaaac aattcgatct catttatcat gaaactaccc taaaccaaga 60
 aaacagagta gaggcagaaa actctgcccc aaactaatcc aaataccaca gttttcccta 120
 ctcaaatacc ccagtaaaat tctcttcggt ccggttcggt aaccattgga tcgccttgaa 180
 aatthttactg gaggtttctg gtacataaat ctacattttg accgttgga tctgctaaaa 240
 catgcctgga acccgagatg tactactctt cccatgacta gcaatgcaca accatttttc 300
 tgcactatgt taaaaaaact gctggcaca tttgacaaca t 341

<210> 29211
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 29211
 gcttatgttg caaacattta taatagacct cctcaccagc aaaaccaaca acaacagaat 60
 aattatgacc tttcaagcaa tagatacaat tcagggttga ggaatcatcc aaatctgaga 120
 tggacaagtc ctccacaaca acaacaacag cctgtccctc cttttcagaa tgctgctggt 180
 ccaagcaagc catatattcc tcttccaatg cagcaacaac agtagtagtc acaacaaaaa 240
 gcaacaagca actgaggctc ctctcaacc ttccttagaa gaattagtga ggcaaatgac 300
 tgaaattctg atactgagga cagatgtcgt acaggatgtc acgacatcgc gttcagaac 360
 atgcagaatg tatatgacag tatgaacaga ttaacaagt aaataacaca agagaattgt 420
 aaccagttc ggtgaacgtc cctacatctg 450

<210> 29212
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 29212
 agcttgtact taactttgct tgcataattct gtgtaactct ggccaaaagt ctcaaccatc 60
 aaatcctctt ctttctctgc cttctgctta taatacaaca agcatactgc cacaataaat 120
 agcagactca gaggtgctcg aagcgcaatg cagtatgtta caaacaaaag cattgttgat 180
 gaatatattg gatgacggac ccaacgataa ggtccaaatt gcactacaga agttggctcc 240
 accacatttt ctgaatactt agcgagatac aatgtagcat tatactgcat tagcagagtt 300

gtaatgatta aagcccagat tccaagattg ctccaccac ccggtatgag gtgaagctca 360
ggcccttcaa atgctgcaag ccaatggcca accatgactc ctgtgctg 408

<210> 29213
<211> 464
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29213

gcttaatggc ttctcgacat anactattaa aacgtacagt gagaattttt atgtcaattg 60
tatctgttat nttttcatca gttccaatat cagattttgc attccttgtc catcgtttca 120
aaatgtagtg cgatggaagg gtaagaacat ttgtaacagt gaagacagtc aatatatgtc 180
aacaaagaac gcctgagtat tcaaacatct ggcagctgca attcaccttc atttcagaga 240
tatttaatgt gaccatgtat gccttgatgat catgtacata ttttgcaacc ctgtatttac 300
tgatcacacc atcatcctca acattatttg cagtataagc aaaagtttcc accagttcct 360
cctgagattc tgcaaaaatc ttcttagtgt acatatttgc tgcttggtgt tccattgggtg 420
atggagtctt cagtacaggt gtgttacaaa tagtctcata atct 464

<210> 29214
<211> 404
<212> DNA
<213> Glycine max

<400> 29214

agcttttcta tggattgact agcatatata ttcattgaga agaaacgaga gagaattcaa 60
gagaaatact actgagtgaac acacaatgct tattgagtct attctttgct tagcaaagat 120
tttgttccga gtcttacatc attgtaaaca cattccttga gtgttaagat ctgtaattct 180
ttgaactggg ggtttatgaa aattaggagt gtcgtagtaa caaaacaata tttgggtggt 240
cttaaattca gggggaatct aagaattagg ctaatggtgg cctagagagt acttgtaaaa 300
tcaagaatgt cagattaaata tactagttag aatattaatt aatagaacct tttacaattt 360
gagtgaacta gtataaatta agtgtttcta ctattctcct taag 404

<210> 29215
<211> 341

<212> DNA
<213> Glycine max

<400> 29215

ctctcttaca gcttataagc actccacttg ctacataact ctcggttgaa aaaaacataa 60
gggccaactt ggttaatctc ttgcgcaggc accagcttca agctttccaa cacaacaaca 120
gtggcggctc aaacagcaag aacggtcttc aagactctct tctacttgca ttgtctccta 180
gttgacgcct tggtgacttt ccttaccata tatggacctg tctctgattc tcacaccac 240
ccattccacc ccatgaaatg gtaccctcca cttcttgcac caacagcatg tgctggaatt 300
gttggcttca catggcaatg gatcactgag agccactcca c 341

<210> 29216

<211> 406

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29216

agcttttagac atctttatctt gatttctttg ttcactctgag tattttttgtg tagcttcac 60
aaggtaaagg gggctcttcc acttttttgaa ccttgatctt attatctttg gaagctagac 120
ttcattgcat gttgtgttga tgttccaaat tegttagctac tgccttggtt ggatctaagt 180
gatatgaggt tttttattga aattttaagg ttaaaaatgt gttcattgag tgtcaaaaact 240
tatggtttagc cttaaatttc acctggatca aagttttcta gcaaaagtta tgaacaaaac 300
aagtttaagg atatttttat aagattaaat ctgtcacaaa attaactggt ttaatgggtg 360
tatcattatt tttcttaaag atttgactnt aaatatgagt ttgata 406

<210> 29217

<211> 469

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29217

cactcacgct tctgtgggta tggaataatc aattatcaaa tgtgggtaatc gattattnta 60
acacacttag attttctaata aaagtttcca aacaaaatct aattgattac taaatgtagt 120
aatggattat ctcgagccat aaagtcttca ttctactgaa acatacatat gtaatcaatt 180

attgaaactg gcaattgatt aattcggcta ttcttgccac atttcaagta gaagggagct 240
 atgctgctta ttctaacact ntgtaattga gtattaaact ctgtaatcga ctacattata 300
 ttgaactcac tgcttctaag aaactttgag atcaattcat taatctccca tgtttgattt 360
 ctactaagca tggatataag aaaactaaga ctaaatacgc catcatgcct agtctaagaa 420
 catnccatac aaacaccaca tcttttaaaa cttggctgac attgtaaaa 469

<210> 29218
 <211> 270
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29218

agctagtcca ctgatactcg ggatccttag aggaccgccg tttcagcttt tgaaagacag 60
 cgaaaccgct cagaggagca tgattgccct gacttcatac aaaaagcagc tgatctggcc 120
 gtgacttcaa catgctacac aactatgtca tcattgcaact cccatgccac tccaccatcg 180
 tgacgagcga tattgatata acatacgtct gggtcataac gaaaggcttt tattacaaaa 240
 aaatacattc cctacttan ggatgggctt 270

<210> 29219
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 29219

cgtattcaag cttgtcacc ctttcgcca ggcgagcaag gatgcttctt ccagaaacaa 60
 cagccttctg aaggaatctt ctggacggcc cagctgggccc tggacgctat ttgcaccctc 120
 ctttatacta aatgcacccc cttctatttt tttgtaattc tttatccgat acgctacgaa 180
 actttacgaa ttgcatagcg atacttattc tacttccgca ccgttacgaa tccttacgga 240
 atatgtatat actcttatgt acctctctaa cgatgtacag aaactcac 288

<210> 29220
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 29220

ntntacagta ctgaaattta aatgctgaaa ttttaagaac tgaattataa tttctgaaat 60
ttaaattgaca taaatcataa aataacttan aataaactaa agtggtcaca atgcaaaaat 120
ttaaactgtct tgctcctcct gtggctggctc tttattaaga tccagtgtgt gagctgtgtga 180
tgaatcctgg ataagctgtct ctggctccgc aactgggtgta gatggctang tctcctcang 240
agcatgtgca gaggatggct gggctcctc aagagcaggt gcagaggatg gctccggtat 300
ctgatctgtg ggggtaccct tcttctgagg catgtgtgta tatgcatcaa aataaaaggg 360
ctcgggaggg atgagctca 379

<210> 29221
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29221

agctttgaat ggangctctg gtctcttgtt gaaactgcat gttttgcata gtcatttgcc 60
tcacaagttc ttcaaggga ggttgcaag gagcctcaac tgtttgctgt ttctggggct 120
gttgctgttg ttgttgctgg attggtggag gaatgtatgg tctgcttggg gcaatagcat 180
tttgaaaata agattgttgt tgctgctgtt tgggatgatt cctccaccg agattgtacc 240
tggtgttgga gaggtcataa ttgttctgtt gtggctgatt ttgctgctga ggttgaggag 300
gtctattgta gatgtttgca gcataagctt caagctgttc aattgcttca gattgttgca 360
cagaaggga aaggtctgtg tgggtgtctg c 391

<210> 29222
<211> 449
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29222

tctaaactnt gtacaagaat gaagctctga taccacttgt ctctgttatc ttaagaaggg 60
gggggggggtt gaattaagat attccaaact gtttccccta attaaaaatc tatttcactt 120
tttactcaag ttatgaattc ccaatgacaa tcttcttaaa tattaattca aatgaaacaa 180

tttgaatatg aatataaagc aataataaat aaaggagatt aagggaagag aaaatgcaaa 240
 ctcagtttta tactgattcg gccacaccct tgtgcctacg tccagtcccc aagcaaccgc 300
 cttgagagtt ccactatctt gtaaattcct tttaacaatt ctaaacacac aaggacaatc 360
 cttcctttgt gtttagagat cctttacaac aagagactca cagtctctta atcccttana 420
 gaatgagaag aagaagaaga acaaatctc 449

<210> 29223
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29223

cttgcacttt ttgtttcctt gaggcttttg gttgaatttc gagcgagaat tgtccctaaa 60
 agaatcttct ttagtgatgt gatagttctg gaaactaatg gaggaagca tcaatagagg 120
 ggaatatcaa cctaatttgg ctaaacagtc ttctttgaga ttaggtggca gttttaaatc 180
 aacattgtct ggaagatcaa atcctcgaaa ttccccctca ttccggcggc ttaattctgt 240
 gcgaacgcca agaaaagaag gaaggatcag cgtaggcggg gcactgtggg ttcggagcaa 300
 tcatttactt ttgtggctgc ttctaatac cctctgggct tatcttggat cttntgttca 360
 gtccaggtgg gctcatagtg ataagaagga agaatttct 399

<210> 29224
 <211> 459
 <212> DNA
 <213> Glycine max

<400> 29224

actaagcttg ccgacgtgtg ccaatatgca tcttgccaaa ctagtcaatt cctaatactt 60
 aaaaaaatt aagaatatca cctttttgcg cttcttattt agcaccttcc aaaagacatg 120
 cacatccaag atatataatt ttcatattaa ttaatgtatt tttcaagcat tcgttcatat 180
 catgttccgt gtctttatgt attttgtttt tagtactttt agcatgtcgt gttgtgccta 240
 actccaattt gagaatataa caaacagtac ttttaaccta tatgctgcag gatgatcaac 300
 ttgcactcca caatccacac ctaagtttag tactgtagtt aattaatgaa tgcagcacta 360

taaatgcacc catcagcaag taaaaactaa ttaaattaaa cttaagatag taaaataaca 420
aagtcttatc tcaactaaata aagtaagtgt tgatgcctc 459

<210> 29225
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29225

agctttttac actgacaatt atagaaaaat tatgcttctg ggtaggtaa aactacatgt 60
aaaagttaat aagaagtcag cctgtagcgt caatgaatta gtttcatgta atgcatataa 120
ttacataaaa ttaaaataaa acataaatct tagcagttgt ctcaaactga tggatttttg 180
ttttgttcat gacatggctc gtaacaaagc tagatgaaat catgaagcca acaaatgagc 240
ttcacttata accagaactt aatggcaagg gcatttgaaa taggacagaa ccaggcaaat 300
acaaaacgtg taatgggaac ttagtgagta ctacttgtag ctaacatttt ttatatatat 360
taataggatn tttcttatgc agctntaaac acttaatta 399

<210> 29226
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29226

ttcttctct agcttcccaa ggaagctacc ttccttgctt ctcatgaag attcccatgt 60
gctaggctat aaatagaaac atgtgtaaca cttgtcataa ctttaatgaa tgagaaacac 120
gtgagacaca cttcaaagtt caacttctct ccctaattct cttcaattcc catccccctc 180
tctctctctc attctcttcc tccattgaag ctctcttctt aagcttctta tccaaggcat 240
tctcttggtg gtgaatgatg caatcctacc cccccaaggg cattgtatag aggactccaa 300
gaagattgag ctagagatac aagagaaggc cataagggtc tcatgagcct tanggtagac 360
ttcgggcccc tgggctacgt atgagtcac ttatctttat acatattaga ttaagggttc 420
atta 424

<210> 29227

<211> 391
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29227

 atttangatt atggggaacc cgtcacatgt gtgactacgt gacggcctgg cgatggtgca 60
 agtcgactat ccacatgcgc gaatcacgca tgaattcacc atccccagat gccaaccttc 120
 aactgaactc acgtactcct acgtagccct tatectctat actctcaaca ccgggtcccc 180
 ataaatccat tcaagcttcc ataacattcg agcaatatcg aaatccagac atcatgaact 240
 atcagagcca agcaagacac ggcataaggca gaatactctg accaaaacac agaccgatac 300
 cacagctttt cttagtcata gaccccagtg acattctctt cattccaata cggtcgacgc 360
 tggatcgact cagaaattat actggaagtc n 391

<210> 29228
 <211> 302
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29228

 tcttatccaa ggctcatctc ggtggtgaag ctcttcttct catgtcttat tccatagtgg 60
 atggcgcttn ctctcacctc ttctnctttg tcttccactg catctccatg gtggaaaatc 120
 accattaaag gacctcattg aagctcaaag atccaacctc catagaagcc ccacaagcaa 180
 acttccatca tattcttcca cccgggattg tatctattgc tggagaggtc ataattgttc 240
 tggtggtgga ttttgcctgt gagtttgagg aggtctattg tagatgtttg cagcataagc 300
 tt 302

<210> 29229
 <211> 392
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29229

 tttagctttt agaatggcta gacataatac atggcggagt ttggttttgt tcaaggataa 60
 aagggatgcc ccacattatt tccatgacac aaatgcaaaa atgatgattt ggaaacttta 120

[illegible]

tgtgtcgatc	ccacatattg	gagcattctc	gcanaatata	cttactctaa	ctgggtctcc	60
ctatgagtn	acttagtgag	agtgacttga	cttaccatt	gtgaggcatg	tcttgtcatg	120
tactcctaag	cgctaaacaa	ggtttttcaa	tgaaaatgg	accacattgc	atgtaggctt	180
gagtctagtg	catctatttc	ataactcttg	tgtttgaatt	tcattgagtt	aatgattgag	240
gttttggtgt	taatttttgg	agtgtgtgaa	cttgaataag	tgtgaataat	gtgtgtgatt	300
ttgtgaagtg	atgttgtctg	tgtacattca	gctctaagta	ttatattctt	tacatgctct	360
agtgttttat	tatatacgaa	tgtgataact	cattcccggt	gtctgtctgt	gtttgggcta	420

agcttttaag	cattgtcata	catgtaggat	tattgggata	ttatatattat	ctgctcaaat	60
gagagcattc	aacttcaggt	cggggcgaag	ccaggggtgtg	attagggaat	gccatggcca	120
cctccaaaat	ttaaaacttt	tttttatata	aaactatatt	atgtttgtat	catcgtatat	180
ttgtttgatg	ttaatgtact	atttttactt	cctcatagtg	atatcttgta	cattattgta	240
gtaaagctaa	taccttctaa	agtgttacia	atttgactaa	cttctctttc	tctaccatat	300
agtcttttgg	atgcaaatga	tccttagtga	ggttattggg	aagatgtggg	aaatctcta	359

<210> 29232
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29232

tacaattaat atagaaccta taccctaagc tcacaccta ttagagcgtn gngttccctg 60
 ttttctctag catgagggtc ttcatagtca tccacctatt catctgctcc cccgaacaca 120
 agttcaagat catcacagga tccagacaca acaacacaca gggagtgagt tatcacattc 180
 ctagctaata gagaaacaag acagttaaat atacatatta tataaatgag ataccacttg 240
 cttaaacata gctcacgtaa cttcaccact tcgtcattca aaattcactt ttcaattatc 300
 aatcacatta cacaagaatc ccacacttcg atcaagatat aataacacat caattagcaa 360
 gcatatgcaa tagttatgct aagacttaat cctatatgca atgtggtacc atgtcagtga 420
 aaaaccaccc tggggcgctt aggagtacat aacaagacac accaca 466

<210> 29233
 <211> 385
 <212> DNA
 <213> Glycine max

<400> 29233

agcttgtatt gggctctgat cggatttagc aaaaattgct cacgtttaat tcggattcaa 60
 aattttaagt tgaagtccta catttttagtt tgggccaacc aacctagcta gctaaacca 120
 ttttgccacc tcttatttga ccaaactatt ttagacgtgg taacaaatag taagtcggca 180
 tggcaatgta tgatttatta cctcatgatt tatatataaa tagataaact aaaatgggta 240
 cgttttatgt gaatgttttt tcttattttt caatagaatc ttctccatct gagtatcctc 300
 agcatagtct cgcttggtgt caattcttta acacaagtga acataacgaa tataataaac 360
 tctttagtagac tgtgatacaa tcaat 385

<210> 29234
 <211> 436
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 29234

taacacatgg agganntttc aatttgtgga agcatgctac tgagttcttg cctgcattgg 60
tatttaggtc ttttgagttt cttttaactg agactgaatg agtgaatgta catgtttaat 120
agatttgaaa aagaaaaaat gaaaatttcc taaattttta atacttttta ttagtatatt 180
gtaggacatg actcaagcaa cctctactca ngacagcaaa ggatcttcat ggatttgagt 240
ggaagtttaa gcgtgcatac acatacatat atgggtaaat tggttttgat atgagcagta 300
aattttagtt gcttgttcaa attctgaatg aatgaatgaa tattgtgatt ngcatcanat 360
gaagaatgct agagacatag tactcatatc tgctttatta ctggtgaatt ttcttatccc 420
tttcattaat gtgata 436

<210> 29235

<211> 405

<212> DNA

<213> Glycine max

<400> 29235

agcttttttg aaatcttgat gccttagtca acctagtaac tcagcttgcc ataaataaaa 60
aatctgcata tgcatactatt actgttgcaa gagtctgtgg tctatgttct tttgttgatc 120
accatacaga tctctgtcct tctttgcagc aatttggagt caatgagcaa cctgaagcct 180
atgctgcaaa catttataat agatcccctc agcagcaaaa ccaacaatag tagaataatt 240
atgatctttc aagcaacaga tacaatctat gttggaggaa tcatccaaat ctgagatggg 300
caaatcctcc acagcaacaa cagcctgtcc ctcccttcca gaatactact ggtccaagca 360
ggccatatgt tctcctcca atgcagcagc aacaacaaag acaac 405

<210> 29236

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29236

gctgctttnt gcaattctaa gacactagag agcttncaag tatatgactt gtcccacgtt 60
gatcttttct atctaataatg catcctgcaa aatcagaata tgaaaaacct gtcatgttta 120
aggaagtacc tttaggatac cacataagca aacacttacc atgatatcca atctacttgc 180

aattaagcaa agaagtgatt caatcatacc tttgtatctt gaatgatgca ctaatttacc 240
 tttctcatca aaggcaaggt atgttgatgt agacatanga gcatatgctt ctttgcattt 300
 cttcatacca aatttcttta tcggnnttat gcaatatctg gtttgactga agaaagttcc 360
 atgtttcaat cgcttgactc tgagtcctat aaagaaatct aattctccca tcatagactt 420
 ctcaaagtct ttcagcatac aacatgacca ttccttgca 459

<210> 29237
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 29237

agcttttctc tgcttttgaa tggggaatgt cctgaatata aatctgttca tagggaaagg 60
 aaataaccat aagaaacttg actatttcaa gtaaataatc aatatcatat tcaatgtagt 120
 ataaaataca aaatgagaga aaaaaaaatc attctcatac acacctattc aaaacacaac 180
 agaatataga gtttggcata acattgttat atacatataa acaagattcc aacctatatt 240
 agtatcaagt atggaataag cctagtcaat ttcaatggca attatgggac gcaaattcatt 300
 gtagttaaca cagcttccaa aatcagggtac aagaagctca gtttttataa agaaattgaa 360
 gaggttagta aataactcga gaaacctcct ttcaactatg ctagacaa 408

<210> 29238
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29238

gcttgctnta nagctaatta caagaagaga aggtgcatgg catcactctt agcttgatat 60
 tgtgggttatt gccatgaatt tgcgggtgaa caaaagatat ggctagttgt atatggatct 120
 agaaattaga aaaaccatat aaaatagggt atgaaaggac tctagtagct atcttaggat 180
 tatattttga aataggaaac taatttgact gcacagctca tgttatttcg tgtgacttca 240
 gtcggagtac aatgttaatg agttcttttg gcctgttata ttttattaat attgcccggg 300
 gtttcttggg acaacaatgg tcggccttac ggtttccgtg atttaaaaga ggatagccgt 360

ccatgatcca tgatccatga tgaagcattt attttaaaga aggggtgcagt gtggttaaggt 420
gaaagataga tggaaatttt atacactaat atattaacac acca 464

<210> 29239
<211> 409
<212> DNA
<213> Glycine max

<400> 29239

agctttatga caagtctata cgtggtatct tccttgggta tagcaatatc tctaagggtc 60
atcgtgtcta caacttgcaa actaagaaac tcgtcatcag tagagatggt gaagttgatg 120
agtacgcttc ttggaattgg gatgaagaaa aagtggagaa gaacgttctt atacccgctc 180
aactacctca agaagaagct gaggaagaag acccaggtga accaccttca cctccaccac 240
aacaacaaga tcaagaacta tcatcaccag agtctactcc aagacgaggt atcttccctt 300
ggtggacata tatgaaacct gtaacttggc catacttgaa cttggaagct ttgaggaagc 360
gtcaaagtag gaagtatggg tcaaggcaat ggaagaagag atacaaatg 409

<210> 29240
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29240

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attggagatc gtgtctggaa tgatctgtta tcacattggc atgcacctga atatcgttcc 120
aagtgtgcac atgccaaaat aaatcgagca tcttaaaagg gtaggtgtat gcacacaggt 180
gattctatca gcttgcagga tcatgccatt tgcttgggtat gtacattagc aatataatac 240
atagttgttt atacttgttt aacttaccac ttaatgttta ttttttaatg tttgttaata 300
gttagaggaa cttggctgat ctgtatatgt agatgaggtc tttcagcaca gtcatttacg 360
aaaggatact ggtcaatttg tcgatgatag atctaaacgg acacatgtga gaccattatc 420
ttgcatatgt tttctattct tttanatggt tattata 457

<210> 29241
<211> 399

<212> DNA
<213> Glycine max

<400> 29241

agctgtgaaa agtgttggtta ttcaccttct cgctaagcca atctgtcgtg ctatacatct 60
ttttcattcc tttctccctt tcccgaagag aattcgccga ggactaaccg cctgaattct 120
ttttgtgtct ctcttctccc ttttccaaaa gaacgaagga ctaaccgcct gaattgtgtt 180
gtgtctccct tctccctttt caaagaattc agaatgacac agcctgagaa ttcttttgat 240
tcttcccttt cccatgaacc aaagatttca aagaactaac cgcttgacat atcttttggt 300
tccacttcac aaagtttaaa ggactaagtg cctgagaact ttgtcttaac acataggagg 360
atacatcctg tgtggtataa ggagagggtg catctactt 399

<210> 29242
<211> 250
<212> DNA
<213> Glycine max

<400> 29242

ttatacaatc aacatacaac ctatctccta atgtcacac caatcttatt gaactgttta 60
aatctagcaa gagcgggcag atgctgataa ctatgcacct atcactaacg tatacccgag 120
cacttggtac tgatcatcac cagatacatt ctcttcgttc cacatggaga gacgtaggat 180
atacttagat attatagagg aggtacctag tacactagtc tacatattga ccgtagagat 240
ctgggtttgaa 250

<210> 29243
<211> 341
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29243

agcttttttag tcttatctga tgaagatgaa ttcgtggcta cttcatgcac tcctttaatg 60
acaatagcat cacttctggc actaaattac tggtagtttg aagccatctt ctcaattaaa 120
tttctggctt cagcaggagt catgtctcca agggctccac cactggcagc atctatcata 180
cttctctcca tgttactgag tccttcatta aaatattgga gaagaggctg ctcagaaatc 240

tggcggtgag gacaactggc acataagttc ttaaatatct cccagtattc atataagctc 300
tctccactga gtngcctaatt tcttgaaata tcatttttga t 341

<210> 29244
<211> 457
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29244

tgtaggatta tggngtacc atcacatgtg gttcttgtgg cggtcgggcg atggtgcaaa 60
acaagttctc cacatccaca aatcatgtac aaccacccat cccctgttgc ccacctccaa 120
ctgagctcac gtactccac gtagccctta tctcgttcc tctcaacgcc gagtccccat 180
caatcctccc aagcttcac aacatccaag taattccaca tccaatcatc atggactaac 240
aaaatcaagc aaaacagggc aaaggcaaaa aactctgccc aaaatacaac tcanattcac 300
agctttttcac atgcaaatac cccagtaaca tttccttcgt tccgattcgt taaccgttgg 360
atcgaactcg aaaatttacc ggaagtctct agtacataag tctacattnt gaccgttggg 420
atctgctagc anatgtccag aacctcatat gtactac 457

<210> 29245
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29245

agctttttcan gaatcactca tttcccatgc atcatctttt ttaaccaacc attgctcttt 60
gccctcatca gcgctcagga tggtacacat gatgccactt tcatacatgg tcatgatagg 120
attactagat aagaaaaataa caaatgactt ttcttgtaaa attcattctc agtcttttat 180
atTTTTTTtat tagattgaaa aacattagat ttatcataaa ttttttagaaa agttacgttg 240
ttggaatgta acaacgtctg tggcggttaac gtttctcttg cgacggaatg agatgacagc 300
catgagacaa ctttcataca tgggtcatagc aagaaggatc agtaaataa aaggaacttt 360
cttatagtaa ttctaatct tctacataat 390

<210> 29246

<211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29246

attcatataa tatagtttct cgaatttctt gctgatgttg tatatgatca aataagaggt 60
 tatcatgcac ggatatccca tatggctaac gcatgatata tgataataag tgacgatatt 120
 attgttgctc taagatccaa gtatagtaag agccttgcta gattgaccag ccacgtattg 180
 agaagccttg cacgccttta tgaggatgca ttataacggg ataggctgac atcgaacttg 240
 tcgatgatcg tgactgttat ccatatgctc gatacccata caagcaagcc caagaggagt 300
 acggccgtga aacaaagcat atattangca tgatactata ctaagcagcc ttcctttgct 360
 cgactatata tgagt 375

<210> 29247
 <211> 394
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29247

agcttttccc ccaattttct ataaataggg ggagaagtga agtagaaaag ggttcagccc 60
 cttaggcact tctctctctt tcgaatttgc tgaggaaaat tagttccgtg aagaaaatcc 120
 aagccgaggc gtttccgtaa cgtttccgtg agtgatttcg cgaagggttt cgaccgttct 180
 tcgacgttct tcattcggtc ttcattcttc aacgggtaag tacctcatac caagcttttt 240
 aattcattct atgtaccgt ggtgggtccac cttttgtttc atgtatttat attctcattt 300
 tcatttactt tttatacccc cttttgacgt gcttaagcca tntatntaag tcatttctcg 360
 cttaatctaa anataaaaata aatctccacc gatc 394

<210> 29248
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29248

ctcagcttga gctaaatccg actcaccata accttgccca ggtgatatgt aatccttacc 60

ctcgaagca aagaagaata gaagggaat ttccaatcaa aaaaaaaaaa aaagagacgg 120
 aaaattccca atgaatgaga acaaagaaat gataggaatt tcccattcaa agagtgggag 180
 aaagccaaag gataagaagg aacattccca accaaagaat gggaaaagta aaaacgaaaa 240
 gaataaagct cccgggtcaaa gaaactagag gaaatgtgca gaaaggtctt ttgaccagac 300
 aatatctgaa caatacacia ttgtcaccat atgaacataa taggagggaa cggaaccac 360
 gacctanaat ggtctcctgc ctttaattac caaccaaatt tcc 403

<210> 29249
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 29249

agctattgag aggtgcta atcttctca aacgtaaata caactcccg acttagaatt 60
 ttcatTTTga cgggtttcct ttggttttcc cgacgttttc cacaataaa cattggtggc 120
 gactccgcgc atcttctctc ctttgaaag cgcacccgtg agcctcgct cgatcgcccg 180
 caaaagggca cattgcgaca aggtccaatg ccttaatgtt tctctcttct cataaccaag 240
 agatcgtaa agatccagtc ccttaaatgt ttctctcctt ttaaaaaaca agatcggtt 300
 aaaggtccaa cgccttaatg tttctctcct cccaaaaaag agatcgtaa cggccaatg 360
 ccttaacatt tctctcctt caaaaatcaa gacatc 396

<210> 29250
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29250

tagctacaca tacctctcta atagctaagc tcctctnct gagattagaa gctagagctt 60
 agctacacac cccctataat agctaagtc acccccatga gaaaaaacat ganaataaca 120
 aaaaaagtcc ttattacaaa gacaactcag aatgccccga aatacaaggc taaaacccta 180
 tactactaga atggccaaaa tacacggcct agacgaagga naaacctatt ctaatatTTa 240
 caaagataag cgggctcata cttagcccat gggctcgaaa tctaccctaa ggctcatgag 300

aaccctaggg cctttccttg gatctctagc ccaatctact tggagtcttc tagccaatgc 360
 ccttgcgggg taggattgca tcacgagttg cttcaaggat ttccttggtc ttgtctttgg 420
 atgcctgttc caagtctatg 440

<210> 29251
 <211> 263
 <212> DNA
 <213> Glycine max

<400> 29251

ctataaatag ggggagaagt gaagtgaaaa agggttcagc cccttacgca cttctctctc 60
 tatcgaattt gcttggaac atcgtctccg tgaagaaaat gtatgccgag gcgcttacga 120
 tacgttggcg taacgttttc gtaaagaata tcgcgaaagt ctcgatcatt cttcgactct 180
 cttcatcggt cttcggactt cgacgggtaa gaacctcgaa ccaagcttat cgattcattc 240
 tatgtaccog tggcgcgcca cat 263

<210> 29252
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29252

ncggccgggc ttacccatgt taatgatncn ctgcatnacg gacctatgaa actaagcttg 60
 ccgcagctcg ccagacgaca ttgttgcttc tttcaatatt aaaccttttg gaggaagggc 120
 ctagaacgcc caagtgggcc agcattgcta tttggcacc cttttttact aaatgcacac 180
 cttctattat tttggttaatt ctttttccgt aacgttacga aactttatga actttgtaac 240
 gatacttatt tacctttcct aaagttacga atcttttccg attatgcatt tactcttttt 300
 tcacctttcg aaaagatacc ggaaccacaa gattgcgcaa aaacatctct tttcaattcc 360
 gccacttacc gaattcacgg atcgcacagc cttgttcttt tgattaccag atgttctgga 420
 ctcattattg tgcacaaagg tcctaacca tcaacctgnt gccatcggtc atgcatcagt 480
 atact 485

<210> 29253
 <211> 390

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29253

 agcttttctt caaggcattg ttagaaagat ctagagtttt aagcctagaa aggtttccta 60
 tttcatttgg gatagctcca ctaaactagt tatgactaag agaaatgtct gtgagttcac 120
 tgaagccacc catgtggaag caatgccttc caaggttatt ttgatgatgc caaagaatca 180
 agagttaagc aaattccaaa gattcaagaa tgaatttttc aagaatcaag tttcaagaat 240
 caagattcaa gaataatcaa gatcaagatt caagattcaa gatttaagaa tcaattaaga 300
 taagtattaa aaaagttttt caaaacattg agtagcacat gaagttttca canaatcttt 360
 taccaaggag ttttactctc tggtaatcga 390

<210> 29254
 <211> 437
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29254

 tccatcaagt ggtaatcaga gcacaagagc ttcaagtagg tgtttcttaa acctccatta 60
 attntttgat ttaccttctc ttccattgnt gntttctcat ttttttctc catgtatctc 120
 ctcacatgtc ttgtgctaaa tgtttttaac atgattcttt agagtttcca ccgattaaac 180
 ttgctataga agctagattt gattttctat ggttcaaatt tggtgttctt gttcttgaac 240
 cataaattgt gttgagtta ggttcctttg agtntgtct tgttattttt tttggctgaa 300
 acctaaacca taaaattctt acaaaaaatat taaagtagaa gaaaacctca aaaatctaga 360
 gtgacttggt cacctattgt agtntgtca tagaagtcac gtctagtcac gaaacttgct 420
 acataagatt tcttatg 437

<210> 29255
 <211> 388
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29255

agctattctt tccctttaga ctttttctag caagnagatg taacatagtt aaaaaaaggc 60
 taattaatta acaatgctga aatgttttgt agcatagctg attaatatat ggccttaaaa 120
 cttgcgtttt tggatttaaa gccatcatca aagaacttgc tggctactta aactagattg 180
 aaaatttaga cacatatagc tgccttaaaa cttgtattgc ataatttgaa aaggatatta 240
 catatttaca tcatattcct atgtgtatta tgtaatgggt agtttgtacc ttcttttgca 300
 ggggaaagat tacgagtctg gcttgctctc ttcccaactg tttatttgtc agcaggaact 360
 gcaacagctt tgattcttat aggagggg 388

<210> 29256
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29256

tgaggatggt gtngcggaga tgcgggatca atatacggat aaagttatgc nctcttttta 60
 ctataagngc atggcatatt tatgttgcta accaattatg tgacagactg gtatttgaac 120
 ctectgtaat tctctgaatg gatgggtatc acctgtacat gggttcatat ggttcactga 180
 tgaaatggat tcattcaact ctacttaatt taaaataaat aaatagaact cattgataaa 240
 cattgttata taataatatt ntatcactca aagaagataa tcaattctca tcataatcat 300
 ttttatcaaa aataatataa tctctgaat taattatcac aatacगतag attttgaaaa 360
 acatcataat aatgaataac ctctatttta aaagacaata taatatatag tgatctcaaa 420
 acacaaattt tctctttcag t 441

<210> 29257
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29257

agcttttaag cagagtctat ggtataaatc acattcacia gtaacatggg aaaggcaata 60
 tttggagcaa ataaaccaa atccactact tttccttgat atgactatta ttattaggct 120
 gtaggttgaa tgatttgaaa gctagactat catcggtgat gccctgtctt ttacacatca 180

agacaagaat ttattatagc actagccaag ctataaaaag aatgctatga tgccagatag 240
gcaattcaag ggaatctttt gattacattc aagtgcatac aaaatggtac actgtagatc 300
cagatgatgc attattaata gttacatttc tcaccagct tccacaaact cagcactctt 360
acagannatg atatntanga atcctaaagt tcatcactat gcttttttt 409

<210> 29258
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29258

tagcatgaat aagacaaaag actcaagact tgctttttta gtttgaatga ttttgtgatg 60
gtgtcngnnt nntagcgcta gcaatcgtct ttgcagcagt ggatcgtgaa tgaagattct 120
cttgtttctt tagagattnc agcaatgaaa ttcaactctg aagggtggtga gtatatatta 180
aatatggcag caagttgttt aatttgcaac ttttgcggt tctgtattct aataattttc 240
tttgagtctg cagatcatat atatgttttt ggtgtaacgc aactgtccta gatttcaccg 300
tctcttgctt gtaaagtcac cgatcaacac ttgtttctca ccaatctctg catataactc 360
aattccttga atcttctgca agagaggtaa gcttacgttt gctcatttcc tatttgcatg 420
gatatgttca gtccaaaatc caaatcaatg gt 452

<210> 29259
<211> 399
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29259

agcttttaag ctctgtttcg cctcttcaca atatgagggc cttacgggtt ctcttttcaa 60
actcatgcag aaaggaatag taagccaata cctgtcagag ttcgaggaac tcatgaatcg 120
cgtcattggg ctctctccat cctttctect aagttgtttt gtctccgggc tctctccoga 180
catccgccgt gaagttcaaa tccaccaacc gttgacagtg gccaggttt ctggtcttgc 240
gcgcctgcag gaggagaaac tcttgatca tcggccacca ccaccgcgac cacaaccacc 300
accctcaacc ataccacccc ctcaaatcc ttcttgcca ccaactattac cctccccacc 360

ccggccccct ccacaacaac caccncaac actaaagcg

399

<210> 29260
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29260

agcttgatga taaagtcatg ccacatattc taattgggta tcaactcaact aaaggctaca 60
agttgtatga tccaagaagt cgtcaagtgt ccattagcag ggatggtatc tatgatgaaa 120
atggaagctg gaattggaat tcaacctcta gtgaaagtca gtccaggata ctgtagaag 180
aagaaacacc ttcaactgca ccaactgtta acaaagttcc tggcataaga agatcatcaa 240
ggagaagtca actgccatta cttttgaggg actatgagtt gtttcaagat tcataagtca 300
acttagaggg agaattgggt cattntgcac tcatagtaga agttgaacct attgaatttg 360
acaaagtagt gactaatgag atgcggctga aagctatg 398

<210> 29261
<211> 462
<212> DNA
<213> Glycine max

<400> 29261

gcttgaaggt gtgtagccca ccatcttttc atagtagaat actggtaatg tgtctactat 60
tattgttatt attgttttct ccgtcattga ggtgccactt gagctgcca gttctctccac 120
ctttgggcgt attcttttga aagattcgtg cccccctttt gcacatgttc tgtagttgca 180
tcctatctga agacattata ctgacactgc ctaacgaagg caaccactag gtccttccaa 240
gaatggactc gggaagggtc caagttagtg taccaggtaa cagctacccc agtaagactt 300
tcttggaagg aatgtataag caattcctca tcttttgcgt atgcctccat cttctgataa 360
tacatcttta gatggttctt ggggcaagta gtccacttgt acttgtcaaa gtccagcacc 420
ttgaatttgg gaggggtgat gatattgggt actacgaaca ac 462

<210> 29262
<211> 399
<212> DNA
<213> Glycine max

<400> 29262

agcttctgta ttccttttcg attttctcga tatattacgg gactcaatca gacatccgag 60

taaaaagtta ttgtcgtttg aatttgetca gagcttcgat aatcaattcc gagcatctcg 120

atatattacg ggactcagtc agacaaccga gtgaaaagtt attgtcgttt gaatttgctc 180

agagcttggg tattcaattt ccagcgtctc gacatattac ggtactcaat cagacatctg 240

agtaaaaaact taatgtcggt ttagttttct tagagcttcg gtatttaatt tcgagcctct 300

cgatatatta taggactcca tcagacattt gagtaaaaaa gttattgtca tttgaatttg 360

ctcagagctt caacattaaa tttcagtggt tccgatata 399

<210> 29263

<211> 440

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29263

ntgagcaaat tcgaacgaca ataactntnt actcggatgt ctgattgagt cccgtaatat 60

atctagacgc tcgaactgga ataccgaagc tctgagataa ttcaaacgac aataactttt 120

tactctgatg tctgattcag tcccgtaata tatcgaaacg ctcgatattg aatggtgaag 180

ctctgagcaa cttcaaacta cagtaacttt ttactcggat gtctgattca gtcccgtaat 240

atatcgaaac gctcgatatt gaatggtgaa gctctgagca aattcaaacg acaataactt 300

tttactcgga tgtctgattg agtcccgtaa tatatcgaga cgctcgaact ggaataccga 360

agctctgagc aaattcaaac gacaataact ctttactctg atgtctgatt cagctccgta 420

atatatcgaa acgctcgata 440

<210> 29264

<211> 360

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29264

cgttgcacgc ttgtgactct tgtcaatctc tttaaaacta gtcacttaaa aagctgtgac 60

ttttgaaaaa atcttcagaa acaagtcact tgtagaatta tgacttttgg aaatgtattt 120

ttcaaaatca gtcactggta atcgattaca catcaacaga tgtgactctt cattttgaat 180
 tttgaaaatt aaaacgttga gaagctctgg taatcgatta cacaagttta aaatacttta 240
 aaactgttta aacataagtt ataactcttg aaatttgaaa tcttaacgtt ntagaacact 300
 ggtaatcgat tactaccttc tggtaatcga ttaccagaga gtaaaactct ttggtaatga 360

<210> 29265
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29265

tcagacgata cgcaaccttg cccatcctct ccatcaccgc gaatgttcca tagtacctct 60
 ttgccaaactt tgagtatgat gtctcaaaag ctgaggtttg acgatgaggt cgaagtttga 120
 ccaacaccca gtccccgatg ttaaactctt gaggtcgtct ttgtgcgtct gctgtctact 180
 tcatcttctg ctgtgccctg agcagtttcc gactgagcag cttcaaaacc tcgtcgcgtt 240
 ggttgagcac ctcatccacc gtgttgatag acgatgtccc ccccaaatat tccggaatag 300
 caggtgggtt ccgaccgtag atgatcttga acgngtgat ccttgtgcct gagtggcatg 360
 aagagttgta tgaccactca acccataaca ggaattgccc ccacg 405

<210> 29266
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29266

tgcacgcttt tatatgngtt tctgagcgca caccatggaa ttcccgtgat tcgtaggcgt 60
 gtgtgggttt tcggaacctt ttcttggttc agtataattc atggaaagaa aattaaaata 120
 acattgggct tcaaaggcca aaggggttga ttaagcttcg agcttcgcac aattggggag 180
 aaacaatgta ttgctggaac atgtcatata tatattggat caatgtcaca tacagagaaa 240
 gtcacttggg cactttgtta agacgagatc tgcccttggt attaacattt tcgatcagca 300
 gatctttcca tctctttaan atcgagaaat acctgtataa cacttttata tttaattntg 360
 atattaagct gaccactatt ctctttaact aaactatcta ggtatggata tggtactcca 420

gatgatgtac cttctatattt n

441

<210> 29267
<211> 435
<212> DNA
<213> Glycine max

<400> 29267

tctcctatta acatagtaac aacaaattac gccttgccta aacttgattt ctagaccaag 60
ttaattgaaa tatacatgtg tgcattgttg ttaaattccct attcatcact ttgtcaattg 120
attaagctat tacaatccaa tgccttcaaa ataaagactt agtacatgtt atagggaaga 180
tggagttcct tctttctttc tttctttctt tttttcttct taaaggctgg agttacttct 240
tactgtgaaa cataaatcaa tataccagag acacgtttga gaataccttt atctaactt 300
gctttttatt gcgttataat tctcttaggt tgtaacatat tctatatgtc atttacttgt 360
caaacaacaa accacctatg catgtataag caaaacacaa taatgctaata aacttggcct 420
taaatacatct ttcata 435

<210> 29268
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29268

agctttgaca tcaacaatat ggttgaaact ggtccaacat gggcatcatc gttcttcgat 60
tcagttgctc agaggatgat gcagtagccc tcaccgacga attgctattn tgcataagatt 120
caaaggcatc tacataactcc cagtaaaatg gatcgcgctn tgttgacctt gggttcctgc 180
tcatagctnt ctttggtgcc cccttcgtgt taacctttgc tggaggagga cacatcgaat 240
tctgatcagg gtatgcaatt tcccaaagtt tagtcttcaa agtaaaactta ccacaaacat 300
caagttcttc gaatctttta aatattgttt ccattacttc cttgatgctc acctcgggct 360
cagataaacc ttgggtctgaa naacttagtc tcctccagaa 400

<210> 29269
<211> 457
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29269

ntcaccttat aattccncca nnattgggca aatttgcttt gaattttttt ttcctttgat 60
gaatgatgct ctctacaac ctaagacaag gtagaaggag ataaactgta cagggtcaag 120
gttcaatcaa ataatcatac tttcagctca aaatggatgc aagggataaa tcaatcatgc 180
acaaggtaag cgttttagct aagtggctat cttcaatcaa aacatgggtct tcatcctctt 240
cagactcaag tattcagtcc atactcagag attcatgcaa aaaccattac ttactactag 300
tcgttctctc acaattaaag atcacactct cactgggttg cggctaagtc attccttcac 360
aatcaacctg acaaaccaac taacattntc aatcataatc ctaattccat gttctttctc 420
ttctaataac tgcattgctca ttcaaggcat atgatct 457

<210> 29270

<211> 398

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29270

agctttttat ntgttaaacc aaggctcatag gctaattgtt cacacctttt ctccatgctt 60
cttgataagt cctatgtaaa gcgcttccag gcaaaaccat tagtaagaaa aggcaaaact 120
attagtaaga aaagtctaac agacctaaag tctacttctt aaaagttcgt tgtcattaag 180
acattttctt cttaaagggt ttgcttcaa caatgttact acttgaaaag aaacaatcta 240
aaatttataa aaaaacaata tatatatata tatatatata ataaactaca tgttttcata 300
tttatcatca aatataataa attgaaaaat gtatgcta atgcatctt tgaaatacaa 360
tctttataat atatttggtta atagatataa acatgtgc 398

<210> 29271

<211> 401

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29271

tgctacaagt ttagtagaaa catgctttct aaccaaaga aaaatattga atgtgaagga 60

gttaatcagc acttttagtt gtaccagttc cctaagtata ctctggttct agccagcaat 120
atattttggt gctaaccagc atgtcctttg gcttctaact gcttgactta attagctcca 180
ttctttttacg tatcaaaaga acctagctct gacacctagt tagtgctgga taatagacca 240
taaagtctac catgacatag ccttacgaca aatgtatact attccaattt ccaagttcta 300
agacatatta aactctntta acagtttagta tagatagccc tgattgtcat gttttccttt 360
atatattgac ttttatttct tatctaactt ctattcgcag t 401

<210> 29272
<211> 410
<212> DNA
<213> Glycine max

<400> 29272

gcatgtgcac gctttcaagc tattatcgaa gttcaacatt aaatttagaa gtgtttacat 60
tattatttaa ccaagtttaa attgagtttc tattagtttt aacacatata ctgacttaat 120
tagtctttta tttatttatg ttttattttt gctaactaga ccttctccta taatgatttc 180
gttttctgaa atactaataa taatacatte tttaatatct cgtatttttt ttaccactc 240
tcttgtaaaa agaaaatttg ttcgggcttc attaaatatg agaattctcat tattctatat 300
gtatctgtgg agtcttattt ctaaaacggt ggaattaatt cacataaatt tcaagagagt 360
tggtacatta aatgtaaggg acgttgtggt gtgatttggc tcgatattta 410

<210> 29273
<211> 383
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29273

tgcttgtgga gcttctatgg aggctggatc tttgagctta ttgttgtcct ttaatggtgg 60
ttttccacca tggagatgca gcggaagaca aaggagaaga ggggagagga ggcgtcatcc 120
actatggaat aaaccatgga agaaggagct tcaccaccaa gatgagcctt ggataagaag 180
cttggaagga tgcttcaatg gaggaaaaga aagagggaga gaaagagaga ggggggagca 240
cgaaattgaa tgaagaaaaa gggagagaag ttgaactttg agttgtgtct cacaagactc 300

ccattcatca nagttacaac aagtgttaca catgcttcta tntatcagat angtagcttc 360
cttgagaagc tttcttgaga aaa 383

<210> 29274
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29274

tcaagctttt agccccaatt ntctataaat agggggagaa gtgaagtga aaagggttca 60
gccccttatg cacttctctc tctttcgaat ttgcttgga aaattgtttc cgtgaagaaa 120
atctaagccg aggcgcttcc gaaacgtttc cgtaacgttt ccgtaaggaa tttcggaag 180
gtttcgatca ttcttcgact ntcttcacgt ttcttcggtc ttcaacgggt aagtacctcg 240
aaccaagctt ttcgattcat tctatgtacc cgtgggtggc cacattgtgt ttcgtgtatt 300
tttattctcg tttcatttac tttntataacc ccccttntga cgtgcttaag ccatnntatt 360
taagtcattt ct 372

<210> 29275
<211> 400
<212> DNA
<213> Glycine max

<400> 29275

gaactataaa aaactaagct tgccgccagc tgcgccagc gagattgttg cttccttctt 60
ttctcaacct tttggaggaa gggctctaca tgcccaagtg ggccaaaatt gctatctgca 120
ctcccccttt tactaaatgc accccttcta tctttgtggt aattcttttt ccgtaccgta 180
cgaaacttta tgaattttca acgatactta ttcaccttcc tcaacgttac caatcttttc 240
ggattatgca tttactcttt tttagctttc gaagacgtta cggaaactca ccgattgcgc 300
aaaaacatct tttattgact tccgccacat tacggaattt cacggatcgc acaagcctgc 360
ttctctttga tttccgagat gtctcgtgac ttcatttatt 400

<210> 29276
<211> 357
<212> DNA
<213> Glycine max

<400> 29276

agctttatgt gtcttaagtc atggtttcct ttcttttttt tttcttggtt gtgacaattt 60

tgtacgttat tcagacattc cctgggtccaa caaccttttt gtatatatttg ctttttcttt 120

cttccgatct ttgatcgga aattttcttt ttctttcgct ttctccaat ttttgatcgg 180

ggattctcgc tttttctttg ctttctcca atctttgatg gggaattttc tcttttcttt 240

tgctttttga agcacattca caacttaaca gtaaataaaa ctcctttttt tgggagatcc 300

ttctgttctt tcttcttagg gcaagggtaa aaattcctat catgggtcaa gggttat 357

<210> 29277

<211> 403

<212> DNA

<213> Glycine max

<400> 29277

agcttggtta aaattttcta actattatag gataaagtgt aaactaacc cagcttgaga 60

gatgtgtcag aattaccaca gtctggagga aattcagatg aactgcaggt aaatgactcg 120

tatggttgcc tttgttctcg tacgaagctc tgtacataaa aatttctatt acattattta 180

caccagttat tgctaagtca taaagtatct ctatcaggaa gctcgtggac cagaaataaa 240

tgggcaagat ttgaaaggc gtaaccacct gttcaattt ctggttctct tccataagtt 300

tggttctctt cagagcaac attgccaaac atcattgcag aaaaagggtg tgtgaatata 360

gatagatgaa aaattgctta tacgctgtat tattataaac aac 403

<210> 29278

<211> 476

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29278

cactcaagct nggaaagaac atctactgca agcacgggtg ttgtgactnt gtgtttagta 60

aaaaggataa atttgaaga aaaaatattt agaaaagtta aaactaatta acagttaaata 120

gacagatgtc acaatttaata tgggtgggtc actttcttgg ctaagccctt gtctgttata 180

gcatttttca aactaataaa ttgataaaaa aacatccttc tacaaaacta attttattaa 240

attgatgaaa gaaaataata ttattaatat tagattcaaa actaaattaa tatataatgt 300
 ttgggtaatt gagtcaaagt ggatgactta cttccctggt taaccatttg agttattttt 360
 gttatactaa actttntaac atgtgatggt acagaaaaac aaaaatcaaa tcatacctcc 420
 agtcattgcc atgaaatagt tgtcttggtt tggctcttct aagctctctc tctttc 476

<210> 29279
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29279

agctttctta ttcatttttc aagttacaag tgaactcccc aagaagtgac atggcccact 60
 tgtgggttttc caatctagct tacattctgc aaagttagaa tatgaaaatc caattaaact 120
 caaggaggta cctttggggt accttaaacc aacattgggt gtgcccttaa ggtacttaat 180
 aatccttttg acaacattta aatgggtattc cttgggattt tatttatatc tttcacatat 240
 gcacacactt agcatgatgt caagttggct tgtagtcaaa tataggagat aaccaatcat 300
 acctctatac tttgactcat ctaccgattt acctttttca tccaagtcaa gataaatgga 360
 tgttgccatt ggtattgttt cttccttaca ctnttccata ttg 403

<210> 29280
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29280

agcttctccg acagcccttg gacccatttg ctttttatgt angtggttct tttcttagct 60
 ttggttttgt tatgcactac attaggggtac gttagtgtaa cgttagggtta gtggaacctt 120
 atggtagaag acggaacctt atggtagaag acgaaaccta gggtagaaga cgagaggatg 180
 ccggaaaaaa tggcgcaaaa ggctgacgac ggagtcttcc ggaagaccg ttaggggttc 240
 ttccggaagt aaccaaactt cttccggaag aacacttctt tcggaagact ctccgataac 300
 ctcttccggg aactttcc 318

<210> 29281

<211> 408
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29281

 agcttttcat catatgttnt aatctacaac atggcctttt cccagtcaag ggtagttggt 60
 gctcgagcta ccatccgcat caactctttc atgtgtgctc cgggatactt cttcttccag 120
 ttaccataca aatgtttgat acacagacga tgttctacgt tttcaccaag ctctttgatt 180
 acctcaacca aaccctgaaa aaaaacagtg cacaaattaa atgaaaaaaaa tagtgcacaa 240
 attaaatgaa agccacagtt tttatttacc ttctgtaggt caaaaatgaa agcccaacat 300
 ccctcctaaa taccatctag gtcagctatc taaaaatcaa caaaccactt ccaagatgaa 360
 taattntcag attccactac aacataggca aaaggaaaca tttgattg 408

<210> 29282
 <211> 434
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29282

 atatgcatgt gaatttngaa gcattttcaa gaatcaagcc aaggctattg tgcaagccat 60
 caatggggca aaacacacca aatgattatg atgatggatg gctcaaattc tcacaaaggt 120
 aaactcatca ctttccaaat gaacttttaa aactatcatg acatgtagaa gagaatcaag 180
 ggattcaagt cacaaaatgt caagactctt attttcaaaa caattacca tttcttgaac 240
 atatcctata attcaaagaa aaaaacatgc aaagttgtac atgcgacaaa aactgacca 300
 aaatattaaa ctagaaatcc gacganacta acaacattaa caaattaaca caactaacia 360
 attaacanga gactaacaaa actagcanaa ccaaagaaca ctctccncc cccccgcat 420
 acttaacaaa caca 434

<210> 29283
 <211> 391
 <212> DNA
 <213> Glycine max

 <400> 29283

agctttgtct gattaacata aaaattggat ttagaagttc taatcaaagt tggctaaaaa 60
agttattcgg tgctgtgctt aaatattatt gttcatgcat cttgggggtg cgacttacag 120
agggtttgga gagaaatatg ctgcattgaa atacggaaga gagaaatatg gtgattaaaa 180
atatatgaga aatagaatga atttatatgt acttggtttg agagaaagag tgggtggatg 240
catgtatgct attttttatg taggtgggaa tttttccaaa aatcttaatc acgtatatat 300
ttgttattat taagataagg ctttattgat attattagga taaaatattg acattatcaa 360
taaaggataa cttacatgtc ataatatatt t 391

<210> 29284
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29284

cgcccttaac gataaaaaata acacaaattg atcttaaaat tatattttat ctttaaataa 60
aacgattttc aattctatca aattagtcca atagaaatat attaatatatt aagtctaata 120
aaaaattatt gacattttca tccaataata ataatttatt aacatttttt gtccaataga 180
acttactcat atctaagtca aaacaatgag tgacatttcc ctggaataag aaatatattg 240
acatttccgt ttaacaaaaa ttattgatat ttacgtccaa aaatgatatc ttattgatan 300
ttttgtccaa ttttaattagc atgatcacat tgacaatcat ttgaatgata aatctatcct 360
tttgtgtcat gtagaactat ttattaatca caacgaacaa tagttaacga ccgactanta 420
ttatcacact tcttatat 438

<210> 29285
<211> 285
<212> DNA
<213> Glycine max

<400> 29285

agctcagtag cccggtgagt actctagaga tctctctgca tgcattgcgcg cgttttctag 60
cttttattca acattctcac gagcagagtc tgctgacccc aacttgagag atgcgtgtga 120
atatccacag tgtgcacaga aagccagagg aaccgccttg ctatgtcttg ttccgagcct 180
ttattctcga actaaccttc gtacaaacta acctgcattt ctttatctac gacacatgct 240

gcttcgttac ttacatcta tcttaggtgg cgagtggacc actat

285

<210> 29286
<211> 529
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29286

ccccgcgcac gagctatgtg annccattgt annaccncga cacctagaaa actcacgctt 60
gtaatcgccc gttccgagga ggttgccggt tttgccccgt ttgcagacag cggaggcgcc 120
agagagcgat attcatgatg gccgctctc cattaaggga taagattcat gtaacctatc 180
tacctacgac attattggtg tccacaacat agaaagtttt aaccattgat tagacatttt 240
attctaaagc aactaaactt tttctacaat tcaaaattta tctacaatct ccataatctc 300
ctcatcccaa cacacttgcg attgtattct taatctaaac tattattatt cgatcacaca 360
gtcaaactgt gatgttgaat tacattactg actactcata tcgagagtac atatcaacta 420
aattctttac ctacgctgag atgcatatgt gcatgcttta aatgttacct atcgtcattg 480
tccggattaa atagtcaatc atatgctcac aaatctttat aatagaacg 529

<210> 29287
<211> 395
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29287

ctgcaagctt gtgtctagtt tttctaaagc anagggttgt tcattctgtg tgtatcaaga 60
gtactatcca ttccatatat aatcacttct tgattagggg tttctttcta aatgaagggt 120
acacggcaaa ggaaaagtat tgaattataa ctcccgaaga aataataata caatacttct 180
gacctttaat tttacacat tcataattat tacattttta gaacagttat ttcataagtc 240
aataatcatt tatccttttg gtatatctag attaaaaaga agaggatta tatagatttt 300
acacaatcat taatcactat atgataattt caaagacttt taaagtattt atcttataat 360
aagttaaagg atgacttggt actagatgat aatat 395

<210> 29288
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29288

tgagcacctc ttccttcatt gatgggttga gccttctcta gggctgtttg acangtctat 60
 attcttctc cattattatc ttgtgcatat agtaggcagg ctgattcett ttagatctaa 120
 tatgtgccac ccaattgcct cttctgtct cttgaggaac tctatcaacc tatttcttct 180
 tctgttgtaa gcttactatt gatcaccaca ggcttgggtct tgttctcttc caagaacata 240
 cttcaggtgg ttaggtaaga tctttagctc caccttgggc ttctcaggtg gacttccgct 300
 tttcaattct tcaaaactgg tccccctgc aggcataatt tcttcacaat ctaagccttc 360
 caagcaagcc cataaattct tcttctcttc actgggttaga caatctacaa cattgggtcaa 420
 agctttctcc agtaaagttt atg 443

<210> 29289
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29289

tttcaagctt tcttcgggcc atttctctgc aaggcaaaca tttggaaagt tagttttacc 60
 agtgggacac tactaaaaaa aaatggcata caacctctc ccataaatac aaacatcaat 120
 gtaaatttag agcaagctta tgcgcatatt tcttacgaa cgttcacttg cacaagacat 180
 tctattaact aagaaaaatg cacccatata caatcaaggc agcttcgtta cctagattat 240
 ttacatgtac ttccaaggtg tatttggttac ttacatcaca cacatttctt tggctaaatt 300
 tacatacatg cataactcaa gcattntggg gtacccaaaa ttgcacatgt gcacatcttg 360
 gtatttctaa tacctgtaca tgcacaaact tcatgatgaa tcttg 405

<210> 29290
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 29290

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ccacattgct acaactccct ccatcattga tcatcatgca aactttgcca ttgatcaaac 120
atctagtgtg gaaaatgttt tctctttgac tttcctccat agacttcaat tgatggccaa 180
gtaatcatca acaattctcc ctctggtggt ttctccactt cctcctcctc atcctcactc 240
tcttctccct tttcaacttt ggactcacta atgtactctc cgtctctaag aatcatggat 300
ttcttgatag ggcaactcata tgcataatgt cccaagccgt ggcaccgaaa gcacttgaca 360
tcccgaacant tttnttagga ttgttcttgg acatttggag gagttnttga tggatatangt 420
gttgccattag aggtggcaac ccc 443

<210> 29291

<211> 402

<212> DNA

<213> Glycine max

<400> 29291

agcttttatat gcattgcata ggattcggaa tctagtttga taaagaataa gagaaccccc 60
tatagccttg ttccattccc agaccagcac ttgaattttc tctaatagct caaaagatag 120
ttataaaggc aatacaaaatt ctaataaaact aagggacaaa ttttttttat aaatcctttc 180
aaaaagaagt taaccaatta agatctcact taataagaaa aagtagggaa gccaatgtg 240
aagcaaagca acaataaaaag acaacaacat gagaagacaa gaagcaaaat tcagtcctat 300
caagcatacc gctgcatgaa ctttgctcaa aatcaatata atggcacaaa gggatgcaac 360
aacatgagaa gataagaagc aaaattcagt cctatcaagc at 402

<210> 29292

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29292

tgctaagccc aattccacan attntcaaaa cagataagga tttgctctta gcgaggcaag 60
gcacgcttag cgcaactact ctattgaaca aactggctt agcgagcagg ctcgctaagc 120
ccaattccca aaatttgaaa aatagagaga taattgcgct tagtgtgata gggcatgctt 180

agcgcacaaac aaaacacaaa aatttctaag tgtctgagaa cacattactc gcttagcgca 240
cagacgcact tagcgagttc ataagcaatt gaactttcaa ccagagaaca tgaacgtgct 300
tagagggaca gagccacact tagcgagttc atctagaagt ctagatgttc aacagaaacg 360
atgaactcgc ttagcgcagc atggtgctta gcgtgctcat cgcgatttcc agaaaaagca 420
ggggcttctc acccctccac t 441

<210> 29293
<211> 350
<212> DNA
<213> Glycine max

<400> 29293

agctgtgata cgcaccttca cagctctgga acacggtggc aagagtcagt acaacacaaa 60
taaaactata ctcggggtga ttgattggtt caattcaaca tcctcaaagt gtgctaactt 120
ttaacacctt ccaaaatgaa attttttata actttcttaa gatcaagatc atatataatt 180
attaacgtca cttatttctt ttttttattt tatcaaacat aattaattat cgaaaataat 240
tcaagtttca catcagctaa aaataatctc acattaaaat atataagcga aagataactc 300
tcatccatta tttacatta tcttaaagta ctctatgtac aatggatcca 350

<210> 29294
<211> 322
<212> DNA
<213> Glycine max

<400> 29294

catctaacca cttaattctg gtcaataaaa tcaagtaaatt atttctatat tgcctaacaa 60
atgtttatgc cttttttata attaaataaa aatcacattt accacctaaa ttctctattg 120
atctcatgca taatccggtg aaaaaccaat ctttatacta atatgtgaat gccataggt 180
acaattcatc tattatatat acaacataca ctaccgtacg atttttttat gaatgtcaaa 240
cttcaaaaca ctacataaaa cactaagtct tataatgttc tctgacgaca tgaataatct 300
acataatatt attaactact tc 322

<210> 29295
<211> 368

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29295

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agcttttggc aagtgtagca acatagtata cggaaangat gctctagctg tggatagagc 60
acggcacact gctggagaaa tcgctataag agatcacggg ccaattttta ttgaggtgca 120
atcagctccc ttcattgcgt agacgatcat tgcctgatgc cacatcattt taatgttcac 180
cgagctgatg ctaatggcta tataaccttc aggctctcac tcatgcagtc ggacatcact 240
ctacatctga tgagtaaact aagtaccggg gaactgatga gatcgaatat tgggaatatgg 300
caaggaatcc agtgaatacg gccaaaagac gggtagaaag gaatggttcg gggagtgaca 360
aggatgaa 368
```

<210> 29296
<211> 401
<212> DNA
<213> Glycine max

<400> 29296

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agctttcata atggttgcaa agaagtctat ctatgggggg cagaatcact ctcattaatt 60
cagatttata aacaaagtgt accataattc tatttaattg atatccacgt agggagtgat 120
tgtagcctat aggggtgtcta tacagggtat gtctatacag gatatgaagc ataagggtgga 180
ccttgcggtg attcaagaca caaacaagga gtcttttgat aagctcatct gccaatctat 240
gtggggagat tcctatgttt cttggaattt tgtaccttca atacaggcat caagtggatt 300
gttgcgcttg cggaataact catattttca ggtggagagg agggataagg gtagaaatat 360
tctaattgctg gaatggaagt gggtaaaaga gaatcagtgg a 401
```

<210> 29297
<211> 393
<212> DNA
<213> Glycine max

<400> 29297

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cctcattgca gtcatttcac acaacataac ccacatgaca taagattaag acatgggtgtg 60
aaggaactta ccgtacgttt gagcaatcct ataattttctt gatcttgcca aagccttatg 120
```

tcaacaatat tagcaagcaa atcaacctcc atcaaaatgt gggattgttc attgggatgc 180
 tgacttggct tectcttaat ttcttcttcc ttacgattg agaggataat aatcttagac 240
 attacacaat aataatatat agatcaatta aaataagcat cataatctatt tcacacttct 300
 taatattaca cctataaagt cacatcaacg tcttcattac cttgtctcga cttttcattg 360
 aacctttcct ctaatatata caccgacacc tct 393

<210> 29298
 <211> 406
 <212> DNA
 <213> Glycine max

<400> 29298

agcttctttg agaattcttc cttgagaagc tagagcttag ctacacacac ccctctcata 60
 actaagctca cctcctggag aagcttcctt aagaagattc ctaaagaagc tagagcttag 120
 ctacacatac ctctctaata gctaagctca cctccttatg atgagaagct agagcttagc 180
 tacacacccc ctataataac taagctcacc cctatggcaa aatacatgaa aatagaaaaa 240
 aaaaatccct actacaaaga ctactcaaaa tacctcgaaa tacaaggcta aaaccctata 300
 ctactagaat ggccaaaata caaggcccaa acgaaggaaa aacctattct aatatttaca 360
 aagataagca ggctcact tagtccatgg gctcaaaatc taccct 406

<210> 29299
 <211> 451
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29299

tatggcctca tcaaaatact tgtttcccga gggaaattct ataaatagat ctctcatctn 60
 taatggagtg ggttaccact actggaaaac ccgcatgcaa atctttatag aggcaataga 120
 tttaaataatt tggaagcca tagaacaagg accttatgtt ccctctataa tagccggaag 180
 tgcaacaata gaaaaaccta gagncaaatg gactgaggaa gaaagaagat tagtacaata 240
 taatttaaag gccaaaaata ttattacatc tgccttaggt atagatgaat actttatggg 300
 ttcaaattgt aaaagtgcta aggatatgtg ggatacacta caagtaacac atgaaggcac 360
 aacagatgtt aaaagatcta ggataaacac tntaacgct gagtatgaac tntntangat 420

gaatgtaaat gaaagtatac aagacatgca a

451

<210> 29300
<211> 404
<212> DNA
<213> Glycine max

<400> 29300

agctttttaa tgatttgatt ttcaaaaatt aaaatgaaga gtcgtatctg ttgatgtgta 60
atcgactaca ccttactggt aatcgattac cagcgactga tttcgaataa tacatttcca 120
aaagtcacaa ttcttcaaga gacttgtatc tgaagatttt atcaatagtc acaacttttt 180
aagtgactag ttttaaaaga cattaccaag agtcacaagc tttgacttga gtcatcaaga 240
gattataaat atgtgaccat ggcattgagtt taataattat ccttcagcat ctttatcatc 300
catcattcat cgatcatctt tgaatcatct atctattcat atgtttttac acaattgtat 360
gattcatatc tcttcatctt tctaaaagtt tttgatcagc actt 404

<210> 29301
<211> 452
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29301

gagctttact aaagattact tgggtgttca gatagtctag acatttatga tgaagcactt 60
anagattttg actatgtaag aggttagtca taacacttat tattaaatgt tctgatatga 120
tgatgagaac ctaatatcaa tgtgcatctg ctcatgttca gaagatcatt acatagataa 180
tgtatctgtc acttgttatg agaaaacaca ctatgtaatg atgagtcac actcagaacg 240
ttgctggggt gactacagtg ctcataatgc tatactcagc acgagatggt gacgctcaga 300
atgttctagt gcaaagtcac tatatatgac aacgcataac ataatgttga gaggaacaga 360
aaagatgatt taacacatgg atattatacc cgttcacctc aatcttgccg tgcgttcaaa 420
cctcacccaa actgatgaaa tggttactaa ca 452

<210> 29302
<211> 323
<212> DNA

<213> Glycine max

<400> 29302

gcgcgtttgc tactcttggc aactgtctaa ggaagctact catggaggtg agcttagtta 60
tgatacgtgt atgtgtagct aagactctag cttgtcacgg aagtgatctt attgaatctt 120
ctgcaggaag tttcctcaag atagcttcta acggaagcta cctagtctat ctctagatgc 180
aggtgtttcg cttagtgcac cactgatgta tgacagtcct gtgagacaca cctgaaggca 240
tcacatgtct ctctctttct tccttaactt actggctcgc gcctctgtct tacgatccat 300
ccatccttat ctccattgaa gca 323

<210> 29303

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29303

tcaagcttnc ataagaaaca gtagcacta aaacatacct gtatctgcat ttttatattg 60
atatgttcta ccacaaaggc tgacatacct aaggtgtccc atatgactac ctaagtatgt 120
attgaaacta aaaataagaa caaacctacc taatgggtcc ctatgtgcac tcaccatgaa 180
gatgttaggt gtacaagtga ctttacaaaa gagagttgca ccactcataa cattcatcat 240
accacctatt ttagggactt ggtacctaat aatatctatt ttgggcacca acaaagcaca 300
tggatttaag ctcttgcgaa ccataccctc atactacaac ttctttactt gaggaatata 360
ctc 363

<210> 29304

<211> 319

<212> DNA

<213> Glycine max

<400> 29304

agctatacct gacctattat aagccgatac gcagaaatct aaacagcacg atacgcgcat 60
gttatgagca atgtccactt gacacactct gcaaagcact ggaggatcgg ttttgcacct 120
aacatacgca aaatcctgac agctagctag ctaagagcta atagacgatg atttttgttc 180
ttcacacata cataacataa tagctaatac tcaaccatac agtcattatt caccatgtaa 240

atttaacgcg ggaatccgaa ttcctatatc aaaaaagtct tagatgcgtt gaacccgaat 300
tctgaacact atctattta 319

<210> 29305
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29305

agctttggtc tagtttttct aaagcaaagg tttgttcatt ttgtgtgtat caagattact 60
atccattcaa tatataatca cttcttgatt aggggtttct ttctaaatga aggttacacg 120
gtaaaggaaa agtattgaat tataactccc gaaaaaataa taatacaata cttctgacct 180
ttaattttta cacattcata attattagat ttttagaaca gttatttcaa aagtcaataa 240
tcatttatcc ttttggtata tttagattaa aaagaaaagg tattataaag attntacaca 300
atcattaatc actatatgat aatttcaaag acttttaaaa tatttatctt anaataagtt 360
aaaggatgat ttgtgattag atgataatat aatcag 396

<210> 29306
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29306

tgagcacctc ttccttcatt gatgggttga gccttctcta gggctgtctg acaggtctat 60
attcttcctc cattattatc ttgtgcatat agtancgagg ctgattcctt ttagatctaa 120
tatgtgccac ccaattgcct ccttctgtct cttgaggaac tctatcaacc tatttcttct 180
tctgttgtaa gcttactatt gatcaccaca ggcttggtct tgttctcttc caagaacata 240
cttcaggtgg ttaggtaaga tctttagctc caccttggtc ttctcaggtg gacttccgct 300
nttcaattct tcaaaactgg tccccctgc aggcataatt tcttcacaat ctaagccttc 360
caagcaagcc cataaattct tcttctcttc actgggttaga caatctacaa cattgggtcaa 420
agcttt 426

<210> 29307
 <211> 398
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29307

agcttattat aagaaagtga agtaaaaaac ttttaatat ggagatttgg tttggaaggt 60
 tatcctgccc atggatagta aggatcgagc cttangcaaa tgggtcccaa attgggaagg 120
 accgttcaaa ataattcaga tctattcgaa tgggtgcttat gagtttagagg agctaacccc 180
 tcagaaacgt actttgagca taaatggtaa gtatttgaaa aaatataaac caacactgct 240
 cgaagttaaa ataagcatag aatgagagaa atactggaaa catagaaatg gcgataacag 300
 taaattgcc aaaaagggcc tgtgtcagta ttacatcaaa agtagaatcg aaatacagaa 360
 ttcgaaataa agatattata agttctacta atgcatga 398

<210> 29308
 <211> 453
 <212> DNA
 <213> Glycine max

 <400> 29308

gtttaagtga aaggatatga ctcttcacat ttgtttttga atttctttat tcaacggcac 60
 tagtaattga ttacaaaaac attgtaatcg actatagctt tttgaaaata attggaacgt 120
 tgtaaattca gtttgaaaac tttttcaaac tcattttgct actggtaatc gattacaaca 180
 atatggtaat cgattaccag agagtaaaaa ctctttggta aaaggttatg tcaaaaattc 240
 atgtgctatg caaagtgtta gtgcttggct ctactgagtt ttaaaagaat ggctaaaatt 300
 ctgttaaaac ataagcactt agacaatgaa tgaaagctgg agttgctgca catgatgtct 360
 aacattatgt caaggaatca gatcgggctg cacaatgcac aatgcacgat ataatgtcat 420
 atgaagaatt gaagctgcaa gatccacgat gtc 453

<210> 29309
 <211> 403
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29309

agctttctca tttattagca tctatgaata tattaggagg aattgaaaga taaaacaggc 60
gattagaagt tctcccaccc tacaaaaaca attttcatat tcaaaagtat ggttaaagtc 120
tgattgtaaa aatgctcaga ttagcttcaa ctaggcagac aaaanaaaaa tagaaaatac 180
aaaaataagg tacttttact gttcatatat agacttggtg caaattaaaa tagcttgcaa 240
aaaaaaaaaa acataaaaaa gtgcagaggg ggagaagaaa agatagaata caagtgtgtc 300
taaggaaaca caataaccaa acatttaaac ttattcattc caatcgcaac atgaacaaaa 360
tgttntttct taataatgtc atctagcatt ggtatattca aag 403

<210> 29310
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29310

tataaaactc agctttaatt ngttgtttgt cttgatagta tttaaattac tttttactag 60
atgagttcaa taatcaaagtg tgataaaatt gctgagcata actataaatg ttattcaatc 120
tatcatgtta tcacttttag taaataatta ttctttattt tattatcata ttattatttt 180
tattaaatcg ttaattcgac aagtctttga ttaaattata ggcttggttat catgaagaga 240
ttatgataat gagaaaaagt tattttataat ttcatcttaa attgttcttg attgtaagat 300
tattgtgaat atgatatcaa taatccggat aagttaatat atatctaagtg gtctttattg 360
gataaagatc aatagatcta atttattaaa ttgcatataa cgattatgta tatgtggatg 420
ttataattaa agcgacttaa ttgagaattc ctaat 455

<210> 29311
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29311

agctttctac aagttttctc acaaataacc atcatgaagc agaaaactaa caaaactacc 60
catcatatct cccaaaaccc catacccacg aaatttaaga gagaaagaag tccacccaaa 120
cctgaaatct cgaagtccca ctcttagcca cgcacttcac gaccccgaaa atgccctcct 180

ttcgcgattt ggggcagaaa tgagcaccaa aggttggagc tttgttgggg tttcaatgga 240
 gaatgagggga gaagaaaatg gcaacgtgag ggagagagag agctgtctga aaaaaaagt 300
 gtgggggctg agtgaagaga gagaaaagct ttttggtttt taaataaaaag gggtttctct 360
 ttttctatta ttntatttga gcaatgccac atgtctccat 400

<210> 29312
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 29312

tactcaagct tgttactcat gtgacaccct ctacccctca catgtatact aatattggat 60
 ttttaattcac atattaatta caagtatttt taaaacattt ttttttccga aacaagtctt 120
 tcaaagggga aaaaggctca cattcatttt cttctacatc atattcaaac tcgtccaaat 180
 aaataataaa gtaatctcgt ctcaaacaag gtcgtctaaa cttcatacaa ttaatataga 240
 acttatatcc tagtgtcaca tcctatcata gcgttgtggt cctgtgtcct ctaccatgag 300
 gttcttcata gtcatccacc tattcatctg tttccccgaa cacaagttca agatcatcac 360
 aggatccaaa cacaacaaca cacagggagc gagtcatcac attcatacct aatagagaga 420
 c 421

<210> 29313
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 29313

tcaagctatt cttgatacta gaagcttctt gaattctgct catgacacta gaaatatatc 60
 ttgatcatga actcgctgac tgaatcttga aatcattctt tgtggatggt gtcgtcatct 120
 taatcatcat cgaaacttca cgaatcaact tgattcatca tcatgaagct tgcttctaca 180
 cttaaccccc aagaccaaact accaactagc ctgagagggt atgaaagaag agccaccagt 240
 ccctctaaga gagcccccat atccttttagt tccgtcaaag aagaataagg agcactactt 300
 caagtgtata ttgaagatat ccaaagtgtt ggagataacc atgccatttg aggaagccgt 360
 acagcagatg ctgctctaca ccatattcat 390

<210> 29314
 <211> 305
 <212> DNA
 <213> Glycine max

<400> 29314

agacaaggat gacaaagctt aagataatca agaacactca gtgaatcaga taattcagaa 60
 gtcagataga atcagagaat tccgactcag aaaaagtctt agtcagaatc agatcagggt 120
 aggactcaga tcagagagac tcatcagaaa gtttaaaagt tttcaaactt tgatgcacat 180
 gattttgaca aacttttaca agagttctct cttagtatcg ataccaattg tgtatcatac 240
 agagcaaatg ttgaaagtt tcaatgatta cacgtcatta ttcaaagtga tcgatcatgt 300
 ttgta 305

<210> 29315
 <211> 428
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29315

ggcggcgctt gggcgtgtga atcgatcact ggcanacgga ancaaaaact cagcttagtc 60
 tgaagatgaa cgatcctatc actgattgat tatggatata tgttgctaga gctttagaag 120
 agataacgtg gctcgactt agtcactat atgaggacaa tgatcactat acattattcg 180
 atcatgatcc aattcccttg agcaaaagtt ggttgccaag catactccta attattttac 240
 tactcccgga ggaagttgag atcatcgacc ctgcttataa tgtatctaaa ttctcatcga 300
 ctgcacagtg gtatggactt catctgccgc gagtgggaaa tccttgggtct ttgaggctat 360
 gacacgtcaa caatgatttg acagctctat tcacacagac cgatactgga ccactacaag 420
 tgtcggcc 428

<210> 29316
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29316

agcttctaca tcagtatcct tctattgtgc tggaactact tcacatggac ttgatggggc 60
ctatgcaagt tgaaagcctt ggaggaaaga ggtatgccta tgttgttgat gatgatttct 120
ccagatttac ctngtcaac tttatcagag agaaatcaga cacctttgaa gtattcaagg 180
agttgagtct aagacttcaa agagaaaaag actgtgtcat caagagaatc aggagtgacc 240
atggcagaga gtttgaaaac agcaagtta ctgaattctg cacatctgaa ggcattctc 300
atgagttctc tacagccatt acaccacaac aaaatggcat agttgaaagg aaaaacagga 360
ctttgcaaga agctgctang gtcattgctc at 392

<210> 29317
<211> 460
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29317

agaggatgct tcaatggagg aaaagaaaga gggagagaaa gatagatggn ggattacgtt 60
attgcaggaa gaaaaaggga gagaacttga actctgagtt gtgtctcaca agactctcat 120
tcatcaaagt tacaacaagt gttacacatg cttctattta tagactacgt agcttacttg 180
agaagctctc ttgagaaaaa ttccttgaga agcttctttg agaatatctt cttgagaaga 240
tagagcttag ctacacacac ccatctaaca actaagctca cctccttgag aagcttcctt 300
gagaagctag agcttagcta cacacacccc tctaataact aagctcacct ccttgagaag 360
ggaagctaga gcttagctac acaccctat aatatctaag ctcaccccca tgacaaaata 420
catgataata caaacaaggt ccctactaca aagactactc 460

<210> 29318
<211> 364
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29318

agctttgtca ctggtattca tgtttcattt aggctttta agtatatgca ttttgattta 60
tggggaccat ctagagtga aactcatggt ggaagctcat actttctcac catcatagat 120
gattttctca gaagagtatg gccgtatgtc ttgaaaatac aatcagaatc tttttccaaa 180

ttcagagagt ggcatactct tattgaaaat caacttggtta caaaattaaa agttntaagg 240
 attgacaatg gcctggagtt ngtttcagag caattcaatg agttntgcag gaaagtatgt 300
 atcataaggc acaaaacagt ccctcacaca ccacagcaga atggattagc ataaagaatg 360
 aata 364

<210> 29319
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29319

ctcaagtaca ataaagaagc ctanatggac tngaaggtct tgccaaccca cttgaagtgt 60
 gtgttcttga aagagaacaa tgcaaaacct gtggtgattt gcaatgattt atcttctaata 120
 gaagagtcta ggtgggtcga agtgctcaaa aagcacaagg cagtcattgg gtggcacatt 180
 ttggacctca agggaattag cctttcttat tgcattgata aaattatgat ggaagctgac 240
 tataagtcgg tgagacaacc acaagaagg cataatcctt cgatgaaaaa agaggtgcac 300
 aaggaagtcc ttaaactcct agaagtaggg cttacctatc ctatcttaga cagtgccttg 360
 gtgagttcag tgcaagtggg tccaagaag ggtgggatga cnttggtgag aaatgagaaa 420
 aatgacctca ttccaatccg aactgtcatg ggatggagaa tgtgcataga atatcgg 477

<210> 29320
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 29320

agcttgtgca ttcaatatcc tgatgatggg gttccatatt ttctcaagac tggactaata 60
 catttgcagc ccaagtttca tggctcttga ggtgaagatc cttataagca tcttaaggag 120
 ttccatattg tttgtttcac catgaagccc cctgatattc aagaagatca tatctttcta 180
 aaggcttttc ctcatctctt ggaaggagtg gcaaaagatt ggctatacta ccttgctccc 240
 aggtctatct tcagttggga tgaccttaag aggggtgtct tggagaaatt cttccctgca 300
 tataggacca ctgccatcag aaaagacatt tcaggcatca ggcaacttgg tggagaaaga 360

ttgtatgagt attgggaaag attcaagaaa ttgtgtgcaa gct 403

<210> 29321
<211> 406
<212> DNA
<213> Glycine max

<400> 29321

agctttcccc tattgtttgc ctccggactt caactccccgt gccaccccgg aagatttaag 60
ccaagcccct actttcgagg ggcaactccc accttatgac gactatcccg ggcaagacga 120
tgaggaagga gatacccatc ttggccccct gctccacctc aaagatccgt cccccatga 180
actaccccaa ccgaacatag tccgctatat cccggcttca cccacacccg taaaagaatc 240
tgtttcccttc gcggaagata agggaaagat tgaggcgctt gaagagaggt taagagcagt 300
cgagggcctt ggcaattacc cattctcgga tttagcggat ttatgtctcg tgcccaacat 360
cgtcacccct cccaagttca aagtaccaga ctttgataag tacaaa 406

<210> 29322
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29322

tgtccacaaa aatagggttt tgaaagttaa tcatttcagt ttcttttcaa gtaaaatgta 60
tcatttntaa ggtctaactc cttaagatga tcacccctca agtaaaaaag aataacttga 120
ttcacgcatg tgaaagaact acgtaggctt gatttcttct ccaaaggagg gtacgtagga 180
gcaaaagccc cgcttttgtc gacctcaaaa aattaaaga aataaagtta ggtaacacaa 240
tttccacaat tctaaaaaat aggctgttgt cctttgagac aaacgtgaga ggtgctaata 300
ccttcctcaa gcgtanatac aactcacgaa ccatagaatt tcattntgac cggtttcctt 360
cggttttccc gacgttttcc acanataaac gttggtggcg actccgcgca tctttcctcc 420
tttgganaca caccgtgag cctcg 445

<210> 29323
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29323

agcttgcttt ntgctattga agaaaataaa tttaaataatg caatgataaa ataatgaaaa 60
caaattcagc aaaatcatgt ttggctgcaa aaagtaaaaa caaaaagaag tttaatccac 120
atgtgttgaa gcaaaggaac tacataagat ttataaaaga tattcgcata ttcaagtgtc 180
gtttgtgata tttctacaca cagatataaa ggaacaatta caaatatttg ttatgttcca 240
tgcttcaata tttgattaga tacataatag tatcaatcgg tagagtttaa gcttgaacta 300
ccctcacaat acaatttcaa agaaatggaa taagagaaaa aaaaaacata gaacaaaata 360
caacgtctaa atgtaaggaa atggagaaac tacgataaaa a 401

<210> 29324
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29324

ctgctgattt agttttcgcc gatgaaagga tcgaagtggg tctattaaga cgcaaactctg 60
atcatcatgc tttgataaat acaaaaaaac tagggcaaat gaagatggtg agaataaggg 120
agaaacccat gttgtgactg ccattcctat acagccaagt ttcccaccaa cccaacaatg 180
tcattactca gccaataaca aaccttctcc ttaccaccca ccagttatc cataaaggcc 240
atccctaaat caaccacaaa gcctgtctac cgcacttcca atgacgaaca ccacctttag 300
caciaaccaa aacaccaacc aagaaatgaa ttttgcagcg aanaagcctg tagaattcac 360
cgcaattccg gtgtcctatg ctgacttgct cccatatcta cttgataatt caatggtagc 420
cataacccca gccaaaggttc atcaacctcc atttctctga gaata 465

<210> 29325
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29325

cttttatatg agctagaaga gccttgaggt aacatgcgca acaaacatga gtgccatctg 60

tattgaaagc tgaatgatgg ggcgcatact ttctcacgcc attacataat gtatcatgca 120
 tgatcatgtc ggatgtagaa aaaagatact gaagtcagat aactacttct aatggaggca 180
 cactctatat tgaatctaaa ctagctcact ataatcaatt acacggattg acataggccg 240
 gtagagaggt gcctagcata acattgatcg atgacagact gtgagaatct gattgctcat 300
 acatttcctg acacacgatt gataatgcat gactctctgc ttgaatcgga caccatgtga 360
 tagagtggag tgcattgctgc cttangcagg an 392

<210> 29326
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29326

tcagctaccg attaatacat tgagtggctt atctaacctt gttctcttag cggaccaaat 60
 cagcctcaga tgcaaggggtt ggggtgtaag tgcttgagac tcgtggctta gcgtatgaac 120
 aaagatgcat ttagtgcgag gcttgcaact agcgaaagga ctatttttca gaaaaaagtt 180
 ttctaagtta ttttttagtt ctttttccaa gaaattgaaa cccttatgtt aaacattcaa 240
 agattggctg atatactcct atgtacagat tatatagcaa gttccaaatg attaaatgca 300
 tgaaaatcaa agataccgga aattaaaact gggttgcctn ccaggaagca cttctttaac 360
 gtcattagct tgacactttt acctcactgg gtgatcttat gttttgggtc atactttcag 420
 aacctcttga cctccttnca ttacct 446

<210> 29327
 <211> 372
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29327

agctttatat gttttctgtn gagcacttag agtttagtat tatgatcaaa tccctattca 60
 tggactacca aagatcatgg agaagcctaa ttgataatgg caagatggga attatgggtg 120
 agattgttat agacggatgg agtgctacta caataagcat ataatgtgta aggcgattct 180
 gggaggggtct gaattagggc agagcatcat tacttctttg attttatctc tgttggtcca 240

ttactctatg ttattcatct agtttctgtt actgtatata tagagcacta ctctatcatt 300
 caccnccag aacataacga ctactctatc attgccctgc tattccaatg tgaatacttc 360
 tatcaggatc ta 372

<210> 29328
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29328

taaggcacct gaatcgcca aagtaaaagt caccttatgt gagattatgt tntataaatt 60
 ataatttata acttatctta tgatttaaca tgctaaaaca tttatactat atatacgcac 120
 ggaactatat atctctaaca atttaataata tgtgcagtta aaaaaattaa tatatatgtt 180
 aaaataattc catgaatcga actaatctaa atctttgata tattaggaac taatcatttt 240
 aggtctcttc aattttcttc ttattttttc actactacaa aatatagact taacatcgca 300
 tgattaacat cggtttttca aaaaatcgat gttaaaaaaa gcacagtaac atttttgtaa 360
 ataagttgag ttggttaaca ttggttnttt aaaaaccgat gttaaca 407

<210> 29329
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 29329

agctttatga ggacagtga atgcagcagg tgtttttgat gaacaatctt tattacctag 60
 tgcggaagt gaaggactcg gacctaggga aggtcttggg ggataattgg attacgaaac 120
 gccgtggtca gatacgccag tatgctacag ggtatctcag agcctcttgg agcagggcct 180
 tatcttgttt gaaggatgaa gggattggag ggagctccaa taatgcatca aagatggctt 240
 tgaaggagag gttcaagagt ttcaatgctt gttttgaaga aatttacagg gttcagacag 300
 cttggaaggt accggatgac cagcttcggg aggagctgcg gatatctata tcagaaaagg 360
 tgattcctgc ataccgctcg tttgtgggaa gattt 395

<210> 29330
 <211> 446

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29330

tattgttggt gcatcatagg cttactaggc ccatctatct aggtatttct gaggatcacc 60
aagaagattc gccattgtga aggacatata ttgtacacat gtgaaaattg agtaggtcat 120
cttatcgtct atgtagagag catattagct acatttggtt ggctgcacat ctttaacaaa 180
agtttcatgt tcatgctagt ttgctacttg gacctttttt agggctcttag taaatgtaag 240
gagtatgctt agtgtggcta gcctgaattc gacatgacaa atcggaggat atgactctac 300
taaagggtgcc aaatttatct atttttatct tctctggctn ttgggttggt tgagtgggtc 360
tcatgattgc gaagtaagta tctatatctc tccctatgt attgaaccaa gtaaaccctc 420
acaatactgt gcgagcgtca ataagt 446

<210> 29331
<211> 285
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29331

agctttctac ttgatcagga gaaanncnng nnngccaaac ctggaaaact tgagctcagc 60
accacaccat acgcggcacc cncgcgcaaa aaagaaccac ccaggactaa ccgaccgaat 120
actatatgtg cctctcttct cctttctctc aaagaacgaa cgactacccg cctgaattct 180
ctcgagtcac ccttctcct tgctaagaat tcaaaacgac atagcctgag aattctgttg 240
attcctgcat tccctaatac aaaagtgtca aaagactaac tgcct 285

<210> 29332
<211> 451
<212> DNA
<213> Glycine max

<400> 29332

actaagctta tcatcgttgc ttccacattg aaacggttgt gctggcctat gtttttacta 60
tagtagacgt acatgtgtga tattataaag atggaaagcc tacactaccc ttctaaatct 120
accccaaagt aactttttta taaaaatatt cattctttat tgtaatatta ttttttaatt 180

aatagtatta caaatagttg cattgtttca ttgaacatga tatacgtoct ggacgaggat 240
 aaatgcaatg catatatgaa tttaacctac acttattttt aagttgtcaa tcaaaaatcc 300
 ctctttatat agctttttaga atatttatta tttcccatga aaaatatcta ttattaaaat 360
 taaaaaacta atatctatca taatttatga tttaataaca ataataaaat atactcgcaa 420
 tatatataca tactattttc tattactctt t 451

<210> 29333
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 29333
 agcttttcag ctatttggtt actctcccta agagaatgga gccaaacaaa gcttccttgt 60
 tgttcctcaa aagccttgaa atttcaaac atgctttaag acaggtgaaa tgaagggcag 120
 ccatgattca gaagtgaat agccacaaag gaatcagatt ccaacatgaa ttgcttgaat 180
 cttctactcc gtgcaatttc aattccaagc atgatagcct cgagttctgc agttacaact 240
 aaacaatagc atacatcaat aacaaaagag aagttcgctt tgccattata atccttgaga 300
 actccaccaa caatggcctt cttcgtgtct ctattgattg aaccattaat attgagtttg 360
 aactagccat ttgaaggctt gctccaacta atgctttt 398

<210> 29334
 <211> 163
 <212> DNA
 <213> Glycine max

<400> 29334
 ttataagagc gggctctgtga gacaaaggtc aagtggctgc aatatgcat tatgatgttc 60
 cgagtacatt ggatctggta cgaccatgcc ctctgattt ccagctggga aataggcgag 120
 tggaggaacg ctacgcaacg agcataatgt aaacctgtac ggt 163

<210> 29335
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 29335

taagctttat gatgttatta aaggctttgc acctacctct ggcagtaaca gtgacaaaga 60
tgatcataag tacgtttaca actagacatc aaattttact tgagattnta tagtttctga 120
tacttggatc acttgagcat aacagtgggg agcaattgat ggaagatgaa tctcanattg 180
ctccaaggag aaggaagaaa cttgttcttg atggtgattc ggaaagacaa atcacagatc 240
tccatgagaa gtatgtttga ccagatcana ctttngtctg aactntggag catgatttan 300
attagagcct tgtcacacag aaattcagtc tttgttcttt tattcttctt acatcatcgg 360
tacatacatt ct 372

<210> 29336

<211> 474

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29336

cgccgggatg agctgtgatg atcattcana cggcccaaatt ctagctgcta tcggcatcac 60
cttttggggg tttttttttt ggtagcttcc aattttgggtt aatttggcct tgccccgacc 120
ctttagaacc ggatattgat gctccgtttt gacgaacaat gtacttaatc cctcactgta 180
actctattaa cattgatttt gatgacgtgg ttaacgcaga cacatggcgg ccccgtagacc 240
ttgatgacta atctgagcat atttctctgg aacaaggatc taaattcatt tttactacct 300
gcgtgctgcg ttcattaggg ccgattttac ccctcatatt ggaagagcaa gagcagcttt 360
tcattactga acattatgca aaccatttta gttcatggc tatgatgttt gacaagaatc 420
atgcttatac ggtggaactt gtcactttat cacaagaatg tatcaggctt tctn 474

<210> 29337

<211> 391

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29337

agctttctaa agttntctgg ttntctaaac cttgaaaact tgtgctattc atcttttcat 60
tctcttctcc ctttgccaaa aagaattcgc caaggactaa ccgcctgaat tctttttgtg 120

tctctcttct cctttttcca aaagaacgaa ggactaaccg cctgaattct tttgtgtctc 180
 ccttctccct tgtcaaagaa ttcaaaaacga catagtctga gaattctttt gattcttccc 240
 attccctaatt acaaaagtgt tcaaaggact aactgcctga gaattctttt gtatcccat 300
 tcacaaagta tcaaaggttt aacagcctga gatctttgtc tcaacacatt ggagggtaca 360
 tcctttgtgg tacaagtaga gggtagatct a 391

<210> 29338
 <211> 447
 <212> DNA
 <213> Glycine max

<400> 29338

ttgatagtga ggaatcaatg ggtccagata ggttgcata tgacatactc agaacttcaa 60
 gtttgtgcaa tgaagatatg gcttggcacc actcgtttcc aattgcagat accttgacac 120
 catctagata caattctgcc agttttgtga ggttttgcaa gagtgtacct atatttggct 180
 tctcaagttt tagagtatgt tgcgaggtaa atgatgtaga caagtcaaga gtagatagct 240
 tggtttagatg agcaatctca attggaattt gcccttgaaa ccagcattt gacaagttca 300
 aatacctcaa attcttttagc aagccaaact ttgaaggaat catcgaagaa tggatgtcat 360
 tgtgtgccaa attcaaactt tgcaaatatt gtaggttgaa gagacttgaa ttgtccaagc 420
 cttcactgat aaattcttca ctcaagt 447

<210> 29339
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29339

ggtatgtcca cgcccatccg cgattataga taaaaacaac ttaaccaaac attntgttca 60
 caaagaacta cgtaggtctg atttccttat cgcaattaag gaatacgtan gagcaaggga 120
 nataccctcg tcgaccgcaa aaagataaaa aaatatataa aggaataaag acgtaaaagg 180
 gaacctaaaa attgaagtca tgtttgcaca tttaaagggtt gttgtctcct gtgacggacg 240
 cgtgggggtgc taataccttc cccgtgcgta aatacaactc ccaaactttt cacttaaagt 300
 tcgtagatca cgtctttttac gggttttctg acgttntcct canataaatg ttgggtggcga 360

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29342

 gtatcaacca taatcgtgat catttcctc tcagtcgtag gtgggatgac ttgngctgct 60
 aggtctctcc acctttgagc atgttccttg atggactcat gttcccattt gctcatgctc 120
 tgaagttggt tccgatcggg agccatatct gtgttgattt ggtactgtcg caacctaccc 180
 ttcggcggga gggcgacgcg agactcgcgg gatgcttggt ccacgaaagg aatacgtgcg 240
 gagtcgccac caacgtttat ttgaggaaaa cgtcggaaaa accggaaaag acgcgatcta 300
 cgaactttnt agtgaaaggt tcgggagttg tatttacgca cggngaaggt attagcacc 360
 cacacgcccg tcccaaggga cgacagcctt taatcgaatg tgcaaactg actnntgatt 420
 ttatgttccc ttntatgttc ttatattcctt tataccc 457

<210> 29343
 <211> 399
 <212> DNA
 <213> Glycine max

 <400> 29343

 agcttgtctc agcgtttatg cgatacggag accaactatg tagctatcat cgccaagtac 60
 caagaagagt taggtctagc cacggccac gagcatagaa tcgcgatga gtatgctcaa 120
 gtgtatgcgg aaaaagaggc tagaggaagg gtgatcgact ctttacacca agaggcaacc 180
 atgtggatgg atcggtttgc tcttactttg aacgggagtc aagaacttcc cggattgtta 240
 gccaaaggcca aggcgatggc agacacctac tccgcccccg aagagattca tgggcttctc 300
 ggctattgtc agcatatgat agacttaatg gccacataa ttagaaatcg ttaggaaact 360
 tgtatggtct ctgagacctt gactagatac gacttcctt 399

<210> 29344
 <211> 462
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29344

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tcctcacgtt tggttnttta gggaaaaaca ccataactaa acgcgccgca agggatccct 120
atcgcaccag atccaaatct agaatgatgg gtgatcaaga ggagacgcag gaacagatga 180
aagccgacat gtcggctctg aaagaacaaa tggcctccat gatggaggcc atgttaagta 240
tgaagcagct catagagaag aacgcggcca ccgccgccac tgccagtteg gctgccgaag 300
cagacccgac tctcttgga ctacgcacca tcctccctca nacatagtag gacggngaag 360
ggacacactg gggcacgatg gcagtcctca cctgggatac aaccgagcgg cttaccctta 420
tggatngccg cccaactatt caccaccgt cttgcaagaa ga 462

<210> 29345
<211> 403
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29345

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aattgatgac gatgatgata acttagatga gtttcttgac gggatgtttc tgtgatcttg 120
gctgatttga ttgccatacc tgaaaagtgc ttccaggcgc caaagctggg caaatagaaa 180
cggttaggca gtggtggaga caagtgggtg atctgtaggt agatgtctaa aatataggaa 240
acatggtgac caaatggttc ttgacaaaat tattcaccct gttgtatcct tcaaaattat 300
gtccatttat gcagactata acagttcagc atgctagttg agtttgtatt atgtacagtt 360
tgtatagtct tttcatctgc caataatgaa nattgcgtag ctg 403

<210> 29346
<211> 464
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29346

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caatcatcac agatccaaca aanaggagca acaccagat cacaaaaacc acccattagt 120
ccaaatttca aaactttcca caacaaaatt aagaaacacc aaatggggta gcaccagat 180
catcatccac aaacagatat agaaacggag aanaacagag gaatgagagt agaanataac 240

ttacgaatcg gcaagcgatg aagcgaagaa gaaggagaaa acacgaagac aagaaagaga 300
naattttcag acacagaaga aatggaaaat ggtagttctc agatttagat ttggactcta 360
cacactntct ctgtatatat atagacgcgg ttnttatgca tgaattatnt gatcaactct 420
gagttcgaga aagctaaggg gagccacagg atcatatcaa gtga 464

<210> 29347
<211> 403
<212> DNA
<213> Glycine max

<400> 29347

agcttggtga gttgattctc gtatcggttt aattgattac agttgtttca taatcgatta 60
cactgttatt tgagacaatg attgatttat tcaggagtct ttcttttaat cgattaccaa 120
gtggattaat cgattacttc tctctcattt agttgttcaa aagtgaacaa gaacacttta 180
attgattact tagagcatct aatttacttt gtagatttaa tcgattatag gtggttataa 240
atgttttctc tataaataac catcttgtgt tccttccaaa acatatcaaa agaatactca 300
atatcttgaa aataacccat tagcctctta atgagaaaga tctcaagttg tcattagtga 360
aaagagaaaa aaagaaaaaa gctgtataat tactcataac ttc 403

<210> 29348
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29348

caccttcttg ctaagccaat ctgctggttt atcgagcatc tgctaattgc aacactcatg 60
tgctatgcgc gaggaagaat ccacaagaag atgagctnta caggttcgct aagcgccctg 120
cttcagttca tccgctaagc gagaaaggcg cgctaagaca aaaatcacta acgtgggcta 180
agcgggccat aagtgcgcta agcacacgaa cacgaacaag gctacctatt taagcctaaa 240
ataagatttt gtgaacaaaag tttggactgc gattcagagc tttgcatatc tagggtttct 300
ggagagagaa aggtccaagt tccagagagt tttgaaagat tctgctgtgt gaagatttgc 360
agagaccaga gcttgaagca agagccngnt taagagctct agatgagtct gtgagtgatt 420

gtgagatcct

430

<210> 29349
<211> 249
<212> DNA
<213> Glycine max

<400> 29349

ctttttcaac attgatgcaa ggggcatga tgataacaat agaggaagac aaaaagccct 60
actgaatgat ttcctgattg gggcaacagt ggaggacca gcattggtca tatattgcgc 120
caccgcttca acatctcaag cctcctgaga agttagattc cgggattgaa gcatagatga 180
ggcgggggttc aagagaagaa atcattagga cttctctggg gaagtatcga tgcgatttat 240
cacaaaacc 249

<210> 29350
<211> 336
<212> DNA
<213> Glycine max

<400> 29350

gagaatgata acgtatgcat acatgatctt gctgatgtca ctacaagaat caccacaggc 60
tggttgagct tgatgaataa tacactattg ttactaccaa caaggactcg attccaacga 120
cttcaagatc caccatatct cacaatgctt ggtttcaagc catcacaggc ccatgtctgc 180
catcaccgat gagttattag tgaagtgcg attacgcatg aatatgtact caagaacacc 240
atactttgaa ccgtaagaac tcctatagat attgaaggat cgcattctcg accataaact 300
taggaagaga aatcacatac tctaattctg ctatcc 336

<210> 29351
<211> 237
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29351

atcaagaacc gatgctncca ctacagagct cactctccag actagttcca ggcactaagg 60
attgatatca caatgagagt tgctacttgc attgatatg acccatccga gtctattatt 120
caataactaa ataccatgtg agagcgacat accttacact gtttaattggc gttacaaccg 180

aagacatcat tatgcttttc caagcttata gcaggccga catcctcaac atcctta 237

<210> 29352
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29352

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taattaattt caatatcaat taagctttga taaagcacc aaacacaaaa cttactatag 120
tctgagttac aaatttttag ggtgttacat acagcctaga aaggtaaact ttgagaagg 180
ccaggtaagt tgcccttgtc aattttgtgg tgggtgtatat tcccacttac acaatgcaat 240
tgatgggtgc cagacaaaat ttgtgataag taggatatgt tgggcattag tttatttgga 300
gtggaaatct agaggggagc ctccatctgg ttaagtggga ttctattatt cagaagaaga 360
ggtctagggg ttcgagtagc tagacttcat aatattgctt tgggttgaaa gcttatttgg 420
gatattctcc atagccctaa catgc 445

<210> 29353
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29353

agctttcatg atttacattc tccattntc tcagacaaat tcttcttgac atcatcaaaa 60
cctgcatgat ttatagcctt ttgcctataa ataggcatcc aaggggtgtt ttaaagggtc 120
ccaagggta gaagtggaga gaattgagag aagagataaa gaagaagaaa aaagaagagg 180
aaacgaagcc gatgcgtac cgaatcgga ccgcaatcat tccctacgtc gtttcttggt 240
cgggtgttctt tgcaccagtc ggtagttct attttttaggt attgaatgtg atctatgtac 300
ccttaggggt ccccttggtt attatgtaca cattcatctt ttccatctat catcgacaat 360
ctctttttct aatcttaacc aatcactagc tgcagtaaatt tg 402

<210> 29354
<211> 442

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29354

tccccgcctt caaggtcgca tctctattcc tagacttggg ttgcttacac cacagcttcc 60
ctcgaagcat catttctgat agagatcctg tgttcttaag ctcttctag cgagagcttt 120
tttgactcag tggcaccat ttacgtatga gcacgatgta tcaccacag accaacggcc 180
agatcgaagt gatggaccat gtgttagaac aatactacg ttcatttgtt cattcccaac 240
cggcaagttg gttccgttac ctacgcttag cagaatagtc gtataatact tccctttatt 300
ccagttcagg ctntactccg ttcgaggcaa tatacggcaa gccaccacca gtgttgcccc 360
attatcttcc tggaatgacc aacaacgagg cggttgaatc actggtaaag ctctgataga 420
agatccatgc aaagcttcaa tg 442

<210> 29355
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29355

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tccctctttt tcccttctct ctcttcttct tctctacgt tcttcttcta tttttatttt 120
ttttaagttc gtagcttcgt cgtttgtctc ggtggtgaga tctatggtcg tcaatgagat 180
ctgtacaagt tgatatcgtc attttttctt ggtgctttat tttgtttcat gatttttttc 240
gcattccatc atccttttct tctttctctt ccttcttttt ccattttccg atgaagcctc 300
gtgcggtgct gccatggttt aattnttatg ttgtanataa gtcaacatac tcatacaaaa 360
taattcgata taacatgaaa taatac 386

<210> 29356
<211> 393
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29356

[illegible]

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<223>      unsure at all n locations
<400>      29357
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<210>	29358
<211>	425
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      29358
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12234

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aagagataag gctntaaggc ttggtccaaa tgaaacttgg ttaggcttaa tgttgataag 360
atcaaattga cacaatgaat gaccatctga tagccatggt ggaagtgcta aatgcggcca 420
tatat 425

<210> 29359
<211> 483
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29359

cgactccggg ggttgagcgt tganncttga tgcctttgan atcccggcga atcanctcgg 60
accccgggat cctatacagn cgctttgcng catttttagct ttaataaaac cttccgaagg 120
gccagcta atctatctgt tcgaaatggc cttcttggct actatcggaa acaccagcgg 180
tgggtgcggtg cctgtgtgtc tccatttcta ttaccgctaa attaataattt aaaaattctc 240
tgtctaagcc ttaatggtta tattgattat agcctagcta tcttccaaca acatgtgcat 300
tcatatgaat tatttcttta ttcctctgca tattagcgac catgtggcaa gtggaaaact 360
aataaagatg aacatgtgtt cctatacata cattatagta agggatacct tcatctctct 420
tcccttctaa aaattagctt cgaccatatt aagatatttg aagaaaaaga taatgaagat 480
ccn 483

<210> 29360
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29360

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cttggcaaga aacaattcgt ttgtaaaatc tctcaagcac acaactgact tatgtctcag 120
ttacaaattt tgatggcgta actcttttct ggtaagaggg atcatatatt cacactccca 180
cattgacctt ggatatcaag tgggtgccgt aagctcagca tacatacctt tatcgttggg 240
tgccgaggat attgtgtgca tattccgagt ggtggtgact aagaataatg agatggaaag 300

caagatgagc acctgcttta gtaatggtgc atttactatg caatcactat gccagggtgac 360
gagtatgtca gacaaataat ttcgattggc tgtaagctaa ctgggatatc atgggtcacccg 420
cacgtgcaca tgcaact 437

<210> 29361
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29361

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attcaaatca ttctcaaaca ctcatattcat acaaaacaat ccactgcata tcatttttcaa 120
ccaattcact gttcaaacaa gcttttttga caagcaaaca actcanagta ctgaaattta 180
aataacttgg aatttaaaga actgaaacat aaaaactaaa atttaaataga ttgaacataa 240
atcataaaat aactgaaaat aaactaaaat gttcaaaata gaaggggtca ggaggagtga 300
gctcatcctc cccctttact gctactgctg gctcctctgg ttcaagctcc tggggtgcag 360
aagccccacc cct 373

<210> 29362
<211> 363
<212> DNA
<213> Glycine max

<400> 29362

tatccggggc tccatcagca gggcttttat atagaaatat ttcattgcta cgcaggcgca 60
cggtcaggca ctgcagaagc acgatgagga ctaacagtag ccagctgtag gtgcactatc 120
tgccccctta caagagacag tgggcctggg gttcatcttc gctcacctgt ggagggttaga 180
gcttcaaata cacaggtaca tgcagcatgt gactacccaa caggcagcta atcacagggt 240
catgtgaagc taaacacgac cttctatcgg tacactatgc actagcagag tcagaacacc 300
agtcctttcc tgtggactac ccacgagcaa ttcggagcca catttgctg gctgaacat 360
gcg 363

<210> 29363
<211> 386

<212> DNA
 <213> Glycine max
 <400> 29363
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 ttggtctaata tggattctat cgacaatttg tccagaatta tgcccacatc gcagagccac 120
 tcaactgcct attgcgaaaa gaacaatttg agtgggtctcc cgaggcaciaa ttagccttcg 180
 acgatttgaa aatagccatg acaaccactc ctgtcctctc cctcccagac ttcacgattc 240
 cctttgtagt ggaaaccgat gcctcagga caggcatggg tgtcattttg atgcagcgca 300
 gccatccaat tgcctacttc agtaagcaat tctatcccaa attgcttcgt tcttctacat 360
 acatctgcga gttgcacgcc ataacc 386

<210> 29364
 <211> 445
 <212> DNA
 <213> Glycine max
 <400> 29364
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 acgatcaacg aggtcgtagg cactccggct ccgacgcct ctcagagatc gcagttcgtg 120
 atcgctaacg ttcagatccg cacgcttttg cacttctacg tgcttttctt tcggcggctt 180
 tggcttctct gtctgcgcaa tcggtgggtt ctcaacctcc ggcgggcgga ccgcccctt 240
 cggagcctcc tcttttggtt tttcttcttc ttttgatgct tctttagggt tattctcatc 300
 ttctttcttt tctcgtctt gcgtttctc tgccttatct tctttcttct ctcttcttg 360
 cgaattctcc ggcagcttct cctccgatgc cgggtggtgct gactctgctc tctcctctcc 420
 gggcgtctct ggtctcggtg gatcc 445

<210> 29365
 <211> 408
 <212> DNA
 <213> Glycine max
 <400> 29365
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 acaagagatt caacagaatc atagagaact agcattttta acttcaggag cacctataag 120

taagtgaat cttcttggtc tcttggcatt gctttattgt ttcttatagc agtaatgagg 180
agggtaatat agcaccatgg ctaaagtagt aaatgatatt taaatgcatg ttcggtaggt 240
tctgagaacc aatggaccac tagctggtgg gagcaattca tgggtcttct taagaggggt 300
ttaatggaaa cgaggcatga atcttattcg agattaatga ttctccaagt cttgtctgtc 360
tcaattctct caggacttct gcggtggcat tctgatccct cacatata 408

<210> 29366
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29366

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ctattctcct acctcatatt cttacttgag ggtcacagtc ctctattttg ccagtccccc 120
cttcctatca atgggtatctt tctaaaccga cgtgtgaagt ctgagacccc atttcatcca 180
catctaccct gacatgtcac ggatctggat tttggcaaga acatgatttg tgccaatatt 240
taatgggctt aacttcttta actagaatga gcaagtccaa tttcaccttg ctgtatggat 300
cttaatcttg ctatattgga agaaaaacct gcagctatta ctgattctaa gtgcaatgat 360
gagaaagccc attatagagc ttgtgaaaga tttaacagac tcaacctaat gcttatgaga 420
atgac 425

<210> 29367
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29367

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ctaataaggg cctatgggtg ggggctgaaa accccaagtt ttttggaataa tttgatatgc 180
ttgctaagcg cgcttggtgca ctaagcgagt tcatcaattt tgttgaattt ctgggtttcc 240
agatgaactc gttaagccgg ccttggtcca ctaagcgtgt tcatcatttt tgattgaatt 300

tatgaatggt tgcataaact cgctaagcca cttcactttg ggcttagcga gagtttaaat 360
ttccagtttt tattttaact gtcctatgaa ctcgcttagc c 401

<210> 29368
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29368

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agtactttcg acacctactg tacgttgatt tgaccaaggt tgttatggga atgttgcgac 120
aatccttcaa aaccttattg atacattctg agaggttggg tgtcatgtgg ccatatcgac 180
gtccttctct atcataagtc atcgctcatt ntccctttga aatgcatca atccatgttg 240
ctatggctgg acttagttca cgaaattttt ctaaattttg ataaaaaaaa tgtgcttgca 300
aggagtgtag gatgcataaa attagttatc aataaccaat ttaagtatat aggggaagtta 360
aataaacgtg accatcaa atganatctt acccaacttc ttcaacattt ctt 413

<210> 29369
<211> 401
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29369

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tgtgaatcac ttgcttgatc ttggaaaacc gtttgaagat gatgagctaa acatcaagat 120
tctcaattgt cttacaagaa ctttggaaacc aaagatcaca gcgaccaagg aatccaagga 180
cttaacatca atgtcgatgg aagatctctt cggaaaattg cttgtgtatg aacatggggt 240
gattcaacaa tctcatgtag aagaaacata aaataaaaga aaaggaattg cactcaaggt 300
tagttcttca aaggaagatt gcaaagaaag ctctagtgat gacgaagatg tagagaattt 360
aagcttgatg gtaaagaagt ttaggaaatt tctcanacaa t 401

<210> 29370
<211> 406

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29370

tcgatgatgaa acaataaatga ttcanagatg ttttgatgat aacatttgtg atgacattaa 60
gctcanaggt caatcaaaga atgagttcaa gatgttcaag atagaatcaa gaaagaatga 120
gttcaagatg ttcaagatag aatcaggaac acttcaagat tcaaggatca accttccaag 180
aatcaagatc aagattcaag actcaagatt caagaatcaa gagaagactt aatcaagatt 240
caagattcaa gaatcaagag aagacttaat caagataagt atgaaaagggt tttttcaaaa 300
gctgagtagc acatggattt ttctcacaac atgtttacca atgagttttt actctctggt 360
aatcgattac cagattgttg taatcgatta ccagtagcaa aatgaa 406

<210> 29371
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29371

agcttttcaac aaatgtcttc acaaataatc atcacacagc aganacctag caagactact 60
catcatatct ccccaaaacc ccataccac gaaatttaag agagaaagaa gtccatccaa 120
acctgaaatt tcgaaatccc actcgtagcc acgcacttca cgactccaaa aatgctctcc 180
tttcgcgatt tggagcagaa atgatggcca aagggttgag ctttgttggg gtttcaatgg 240
agaatggagg agaaggaaaa agcaacgtga ggaagaggga gagagagagc tgttctgaaa 300
ttgggctgag tgaagagaga gaggggttgc ttttgggttt taataaaagg gttttctctn 360
tttctattat tntatttaag caatgccaca t 391

<210> 29372
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29372

taaghtaacc ttttggctct ccacactcat ttctaagtta tcatttccca tgtccaaaac 60

acattttgcg gtaagcatga atggtcggcc caatatcaag ggaatatcag aatcctcgtc 120
tatgtccatt atcacaaaat ccatcggaag ggtgaattgg cgaaccttaa ccaagacatc 180
ttcaactaca ccatatggtc atgtaatgga ggggtctact agttgaagag tcattatagt 240
gggagctatc ctcggttct caattctccg acacatagaa agaggcataa aattgatgct 300
cgccaccaga tcaatgagag ctttaccac tgacacagtc ccaataaagc atgggatgat 360
cacacttct gngtctttga acttctgtgg tagaattcta tggatcacia aactacaatt 420
tcctttcacc ataatgctct cattg 445

<210> 29373
<211> 371
<212> DNA
<213> Glycine max

<400> 29373

tttgaagctt ttttcaagac ttagaaatca aagatattcg agatggatga tcaagacagg 60
ctctagagtc ttaagaagag tatatttaat aggaagagaa ttccaattga agtagcataa 120
gctttggcca ataaatttaa gttaaaaagg ctttttcaag aaatttactc tttggtaatc 180
gattaccaa ggatgtaatc gattaccagt ggccaaaact gatttacaac agctattaaa 240
atttgaattc aaaatttgca ctgtgtaatc gattacacat atatggtaat cgattaccag 300
cagttattaa gacgtttaat tcataatttt aagcttgga tcgattacac aaatactgga 360
atcgatacca g 371

<210> 29374
<211> 448
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29374

tgcccagaga aggagtccat ggaggacatg ctttcttct caaattactg gaaagcggnt 60
tctaagact cctctgcggc ttccacataa ggcatagagg atgggaagct caccaagatg 120
tcttctcgc ctgatacgat gaccagatgc ccttacta tgaatctcaa cttttggcgg 180
agtgttgagg gaacaactcc taatgagtgg atccacgggc gcccacacag acagctgtag 240
ggaggggttaa tatccattat ttggaaagta acttgacagg tgtgagggcc tatctgtact 300

gcgagatcga tctctcccct aacctctcgg cgggtgccgt cgaaggcacg aaccaaccgtt 360
gaactcggct ttaagtggga ggcattgaat ggtaatttct ccaaagtgc tttacgcac 420
acgtttaaac tggaaccatt atcgatga 448

<210> 29375
<211> 387
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29375

agctttgtnt aatttttata aagagttaaa attaagttca gaagtgcgtt atgaacaaag 60
ttaatattta taattaacta attattaaaa ctacatcatt cagaaaatat ttctcaaaaa 120
ttataaacta caaaaggtag tttaatcagt gtcactatca ttccaattct tttgtcttct 180
aattacaatt tctcatacta tgtcaaaaacg tctataataa aaggagactt catctccatg 240
atcaaagtca ctttctgcaa gaaaatcata ccatgggtga gcaatggctt taggagcaat 300
tccagggctg agagtctcaa gaggccattg cgatggacgg ctaaatecgtc ttaatactat 360
catgtgatgg ccacaagcat taagaga 387

<210> 29376
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29376

actaagcttc ttaagaaatt ctaaagaact agagctttgc tcacatatct tctattagct 60
aagctcacct ccttgagatg agaagctaga acttagctac acaccctat aatagctaag 120
ctcaaccnca tgacaaaaaa catgaaaata caaaaaaaag gtccttacta caaagactac 180
tcaaaatgcc ccgaaatata aggcataaac cctatactac tagaatggcc aaaatacaag 240
gcccaaacga aggaaaaacc tattctaata tttaaaaga taagcaggct catacttagc 300
ccatgggatc gaaatctacc ctgaggcaca tgagaacctt agggcctacc cttggatctc 360
tagcccaata tacttggagt cttctaccca attcccttgc gggataggat tgcacacaa 420
cacattcatc ataccaccta tcat 444

<210> 29377
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29377

agcttggtccg aacaattgga gcatgacgag tcttcttgaa gaagcaaata tcccgttgga 60
 aacctaccta aagcgaaatg gccttagtag cttgatataca gagcagcaaa caaattcagc 120
 ttcaaagtgt caagcacaga caaccaatga tagtgaggga aaacacaatg aggattgtgg 180
 aaccgctttg gttattcatg agaggggaaag cagtcttgaa gagaacagtg ggcaagacag 240
 agagcaaaac aattcactct catgaaatct tgccagttat attataattg ttttttcctt 300
 tgttttaact caaaaatcat ttacaagaa tccttgcata aattataaaa ttataggagg 360
 ttcattagga tggctatatt nttttttct 389

<210> 29378
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29378

tgtcagaact tgttntaaca naaacaaga aatttcttga tcaacttagt agcctcatal 60
 ttattttttca ttaaataata ccatgtaaac ctagaactat catcaacaat agtcaaaaag 120
 taatgttttc catcatgagt agcatgttga tatggggccc acgtgtctac atgtatgaga 180
 tcaaattgggg actcaaaata atgggttattt gaaataaaag agagccttct anatatggac 240
 aggggggcaga tcatgcaatc tttagaacta tgagatgtca aatgcaatga atttttattt 300
 gcaaaaagtt tcaaaatctt gtcagataca tgtcccaaat gggaatgccca caaagattgt 360
 tcactaagaa cattacaact tgtaactaca ttattancaa ttgaagaatg tgaattcaca 420
 a 421

<210> 29379
 <211> 396
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 29379

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agcttggttta aattatgatg gattaaaata atatagcatt gccaggacta atgatattac 60
aagacagact gaaaaaatgc ctattgttct gtttcatgat aaatgagcag cagcagctaa 120
tttataacta gaggagggat caacttacac caagagtaac tcttctagtg aaaattttca 180
taccaatttg gataaagcaa ttcaactatt atctaagtga aaattttctt ttaataaagt 240
gtcgttactt ctgtgtccca tgaattgagt taaaggccac ccattcttag cagagtacaa 300
agaatttctca tacttgaatt agcacaagcg cataatagca ttggatggaa cccttcaatt 360
ntatttaagc aatgattttt aatccattaa taagca 396
```

<210> 29380
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29380

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tggttacctt ttacctttat atagcttcta acattcttaag gcactgtagc ttcagtcata 60
tgtagnggaa tgtcatgaac aacagctgag aaaggctgat ggctctgctt catttgagat 120
acatggaaag catcaagtat tttggctaca gccgtggccg gtaagggaat ttttgaagca 180
cccggccaaa tcttatctat gagacaatga ttntatagga accatagaat cttgggtggt 240
tactgtgata tgcatacatg gttgtagttt catatacacc acccaatcat ccacttgaaa 300
cttctgtgat attcgattat tgggtattgt tagcttggtc caacattcta ttntgagctt 360
ctgtcaaatg aaggtagaac gtgaaggggtg aaaacttgat ccagggtgtt ttacttgtga 420
agt 423
```

<210> 29381
<211> 395
<212> DNA
<213> Glycine max

<400> 29381

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tcaagctttt attttgctat tgaagaaaat aaattttaat atgcaatgat aaaataatga 60
aaacaaattc agcaaaatca tgtttggctg caaaaagtaa aaacaaaaag aagtttaatc 120
```

cacatgtggt gaagcaaagg aactacataa gatttataaa agatattcgc atattcaagt 180
 gtcgtttgtg atatttctac acacagatat aaaggaacaa ttacaaatat ttgttatgtt 240
 ccatgcttca atatttgatt agatacataa tagtatcaat cggtagagtt taagcttgaa 300
 ctaccctcac aatacaattt caaagaaatg gaataagaga aaaacaaaac atagaacaaa 360
 atacaacgtc taaatgtaag gaaatggaga aacta 395

<210> 29382
 <211> 431
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29382

ttgctgattt agttntcgcc gatgaattga tcgaagtggg tctataaata cgcaaattctg 60
 atcatcatgc tttgataaat acaaaaaaac tagggcaaat gaagatggtg agaataacgg 120
 agaaacccat gttgtgactg ccattcctat acagccaagt ttcccaccaa cccaacaatg 180
 tcattactca gccataaaca aaccttctcc ttaccaccca ccagttatc cataaaggcc 240
 atccctaaat caaccacaaa gcctgtctac cgcacttcca atgacgaaca ccacctttag 300
 caciaaccag aacaccaacc aagaaatgaa tnttgcagcg aaaaagcctg tagaattcac 360
 ccgcaattcg gtgtcctatg ctgacttgct cccatatcta cttgataatt caatggtagc 420
 cataacccca g 431

<210> 29383
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29383

tcaagctttc ttgtgaagct tctatggagg ttggatcttt gagcttcaat gaggtccttc 60
 aatgctaatt ttccaccatg gagatgcagc ggaagataaa ggagaaaagg tgagaggagg 120
 cgccatccac taggaaataa gccatggaag aagaagcttc accactaaga gagtgccttg 180
 gataaaaagc ttagagagga agcttcaatg gaggaaaaga aagagagaga gaggggaggg 240
 gagcataaaa ttgaaggagg aaaagagaga gagaagtga actttgaaat gtgtctcaca 300

agactctcat tcataaaagt tacaacaagt gttacacatg cttctatnta tagcctangt 360

agcttccttg agaagcttct ttcata 386

<210> 29384

<211> 445

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29384

tgcttgtggg gcttctatgg aggctggatc tttgagcttc aatgttggtc tttgatgggtg 60

atccccacc atggagatgc agctgaagac aaaggagaag aggagagagg aggcgccatc 120

cactanggaa taagccttgg aagaaggagc ttcaccacca agataagcct tggataagaa 180

gcttggagag gatgcttcaa tggaggaaaa gaaagaggga gagaaagaga gaggggggag 240

cacgaaattg aaggaagaca aaggagagaga agttgaactt tgtgttggtg ctcacaagac 300

tctcattcct cacagttaca acaagtgtta cacatgcac cttttataga ctangtagct 360

tccatgagaa gctntcttga gaaaactttc ttgagaagct tctttgagaa aactttcttg 420

agaagctaga gcttagctac acaca 445

<210> 29385

<211> 385

<212> DNA

<213> Glycine max

<400> 29385

agctttaatc ttctagaagc accatgagct aacctcaaat ccataccat aatgaagtca 60

cacctaccat tctaaaaact taattccatt ccaaaacgac catatatagg gaccaaagta 120

caacattcca aatcaccatc taaagaaaag ttcaacggtg ttctacatat gttccaacca 180

agcacacaca gacaaacatg tcattaacac aaattataag caaacaaga taggaagacc 240

gagaggggga atgagcgagg gaaaatgaac cttacaaacg atgagagagt gaagctattg 300

tgagggcgag ggcattgaat gatgacgacg ataacacaca cgagcttcga caacaacact 360

ggacaacttc gacatagacg ctttt 385

<210> 29386

<211> 436
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29386

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 ttgcatgtcc acttgtaact caagagcatc aacctttcac caacaaaggt ttgaagacca 120
 tcaaacctat ccaaaacctt ttgaagaaga gaggaatctt ctccaccatg taaatgtcct 180
 tcttcatcaa tgggttgagc accctttttc acccaagagc catcatgctc tttacgataa 240
 ccaaaggatg caatcatagt ggcaccgatt aagaaggatc tcttgattgg aacataaggt 300
 tcagaatcag gagggatgtt atagtgttta aggaagagag tgactangtg tggatatggc 360
 aatgtagcat ttaatcgcaa tgccttatgc atgcgatatc ggactaagtg tgcccaatca 420
 atttgtcggc ctttat 436

<210> 29387
 <211> 377
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29387

 agctttcttt actcaaacat ggaaagaaga caatatatac aaggcattac caattgatta 60
 ggagaataaa tttttcctta taaattttta caaatatta ccaattcttt ttcccatata 120
 ggcattgcaat aaccccaact gcttaatcag gcttgctga acttcatctt ggaataatc 180
 ctggattagg aggtagtaac tggatccaag attctctcca agactgttgg ctaatttccc 240
 tagcacaatn tgattttttt ttttgtaaaa atgaaaagaa gttagaccgt gagtgagaca 300
 ctntaacagt gcatgtctta tgactatttg tctttattta tgaaatnttc attagtatta 360
 ttaacttaga agttaaa 377

<210> 29388
 <211> 419
 <212> DNA
 <213> Glycine max

 <400> 29388

agcttggttat tactatctcc cgctttgtga tgatgacaac cctaatatca agaaacacat 60
acacattctt tgcctagtc gatcactcac ttaatactcc atattctccc cctttgttct 120
tgagtctaag cttcacttga aattaagcta ttgaatcata tgagagcttg atttaatccc 180
tattatctct cccctatgg catcaacaaa aagccgaagt tgtaagaata taaaacgtca 240
taaagatta taaagcataa taccaaagt aagcacatat cactagacat atgtcatcag 300
aataattaag tctaaaactc ataacaatta agagtaagtc aatatagtca tgtcaaggga 360
tactaatcaa atcataaaag acatactatg tattcacatg tcatagaaat atagatcat 419

<210> 29389
<211> 407
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29389

tactaagctc gccaccagc tgcctangc gagctagggt gcttctctt gttgcattct 60
ccttcggag gaacatcctg gaaggccgaa gtgggcttg atactatatg caaccccggt 120
ttactacat acacccctt cctttattg gtgattctt ctccataacg ttacagaaac 180
ttacgaattt cgtaacaata ctnttttct ttcgtaatg ttacggaacc ttacagatta 240
cgtaatcatg ccttttatgc ctaccacaat gttacgaaac tntacagatt acgcactatg 300
ctttcttttg gctttcggca tgtctcgga cttcacgaat tgcctaacga tgggtgcaa 360
gtacctcaca gcggtcaaac gacggtcgca tcccagcaat ggatagt 407

<210> 29390
<211> 406
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29390

agcttatggt tgtaatactt acttgntggt gatgaacaaa agcgcgaaat ggaatcaaaa 60
aatgcgaaaa atgatgaccc tnaggctgca aactcgtaaa tcccgtgggt atggctttcg 120
aaagggggga aaagaagtn ttgaatgcaa aaacgtccnc ctttcgtca cttttatatt 180
ttggtgcaga ggtggctcgc ccaggcgagc tcagctcgcc caggcgagct aacctgcact 240

tttttttttt tttaggggga acattaacca tgtccccacc tttttcacgg gtttagcggtc 300
 acctaacttg aacctactta agtcagaatt aggcgtcgat tacttattnt ataacaaaca 360
 aatagtaaaa gaaaattgtg aatacaagga tactgggctg ccttac 406

<210> 29391
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29391

tcaagtatac aactaatact aacattgcc a tgagaacaac tattgatgat tcatgggttat 60
 ggcattgaag atttggtcac ttcaacactc aagctttgat gttgctgcct caaaataata 120
 tgatgagaga tctaccatgc ctatatgact ataatgaagc ttgtgaagga tgtcttctta 180
 aaaagcaaca aaattaccat tttcaactaa caaagcatgt agagctaaag actcgtcaga 240
 gttaatccac actaacattt gtggaccaat gaggacatcg tcactaaaca acaacaggta 300
 tttcatcctc tttattgatg acttttctag aatgacttgg tctacttctt tatagaanaa 360
 tcaaaggctc ctggaatgtt caagaatttc aaagctcttg ttgagaaaca aagcacgaaa 420
 catatttaaa gtaataagaa gtgttcaacg canagaatat aactcacatg agtttgataa 480
 gttat 485

<210> 29392
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 29392

agcttttgct ttttttgttg ttcaccatgt tgctccttct atctctaaca ctgcactcca 60
 ttccatccca ccatgtttgt ccttaaccac gaaaaacgac tttgttatcc tttgtgtaga 120
 ccaagcaatg aagtacataa aatttgggat aaatatactt ggacacctag taagagagag 180
 agagagagag agagagagag agaaaatata agcagaataa gtgatatgat agtgataaga 240
 aaaaagagaa aaaaaaataa aaaatattga taagggtgtt gaatttttgg atgtccaaac 300
 atcatgtttc taaaatttgt ctaaagctta agagcatctc tagcataagg ttcttatctg 360
 gttccttcaa ttgaa 375

<210> 29393
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29393

acagagtggg acctgcagat atgtcgcggg ggtcaggaga ccttcggggac gtcaggtggg 60
 gtgctattgc ccaaaaccaa gcttgaccaa tcccgaccca acccgggcat agtcgggtcag 120
 tgagaacctg tgatgtacct aagcaggcga gctcctggca gtcaacagat aaaaggaaaa 180
 caagaccaca aagcatagag gcttgtgggtg gctggccagc tgtgaatttt gtgtaatatg 240
 tggattgtgg cctctggtaa tcgattacca aaggtgagta atcgattaca acgcttacia 300
 ttgaggacag gacgctaaga tggctctctgc gtaatcgata ccaaggggtg taatcgatta 360
 ccaggcttga aaacgaagtc aggaaactta nggagcctct gcgtaatcga taccagcctg 420
 tgtaatcgat tacacagagg aatgg 445

<210> 29394
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29394

gttttatggg tttagaatat cgatataatt gagggataat tattagaaac atagagagct 60
 cctaagtttc cagatgcgat ctaattgatt acaatatgtg gtaatcgatt atatcaagct 120
 acaaagactt tcttcttttg aaactagctt gggttatcga ttaattcaat aaaaattacc 180
 aatatttgaa gagaactaaa ttttgttgct tgttctaaca ctntgcaatt gattacttaa 240
 acttagtaat ctattacaca ttgtttgaac ttattgcttc ttagaaactt tgagattaat 300
 ccatctatct tctcatgtnt gataaccact aagcatggat aaagagaact aaatctaana 360
 cacttaacat gcctagttta gaaatatctg atacanatgc catatcttta 410

<210> 29395
 <211> 492
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29395

ccgcttcaca tggagctaga tcatgtggta tcaagagcat ctttttctat gtgatgttct 60
 tttgcttctt ctatcttttg gtttgggtcaa ttcacttttag agtagattca aaaaaataaa 120
 ccgattaaat cttagatcta cacttggttct tgcatttcaa tgggtcaaata tttatagatc 180
 tactctaaaa tcatgttttt gtggtgattt tatgttctat catttttccag tcataatgtt 240
 cttgtgttga accttttagat ctaaattttc ttccaaaata ttgattagaa actaagtgtg 300
 aatcacttaa tccatgttgt cttagagtca tgtttagtca taataattgt cacattatgt 360
 tctaagtttg tgttaaactt ttttattctg ttgattgaat tctacatacc attgctcatg 420
 tattcttgtc attcttagcc catcttttga atcttgagtc taattcatgc atcgtatnta 480
 gttcataaca tt 492

<210> 29396
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29396

attnttatat atacacgcgc gaaatggggt ggacgtgcga tgaggctggt aacatgaatc 60
 tataggccac tgggccaatg cgcgccgtta tctgaaaggg tccataaaac cgcttggtta 120
 gctaggaata tgtcggagcc agcgacgtct gccggtatgg tcggaagcgg acgtgtaccc 180
 atacaccac ctcataagat atatcgcggc ggtgtttatc ggcagcaacc ttcattgagtt 240
 cctgcgctcg ttgaaggcgg cgcgtaatt gcgcgtgtac ttgcagacgc gtggtgagta 300
 gcgagtcaac ggcattcttc gacgattgac cttggagata g 341

<210> 29397
 <211> 586
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29397

acggcaccca cgagcacgga aaacaacgca gccgaagaca gaacatcgac acctccccnn 60

cccccaagc ggggtttgtg acaccgtaga acancancgg caancnagcn cggacccggc 120
 gaccccnaga gncgaccggc angcangcaa tcttttttagc taaacgagac ggaccacacc 180
 gagagaagga gaagaacaac gaccacgccc acaagaatgg acggccnaga gagcaciaag 240
 gaagcgccac ccgcaacgcg gcagacccaa cccgggaaga tgcagaagga agagccttgg 300
 aggcgaagac aaaaccgccc caagaaggag ggaccgatga ggacacaacc aacgaccatg 360
 aagcactgga aggaccacg accacaagca tacttagacg agcccaacac cgcacagaga 420
 ccacgctggc caacaggata gccgccacag aagatgactg aacgccaag cgcagaaaga 480
 cgaacgcca gaggcagaag cactaccaag accaccaaac gctgctgaaa gcccaaacia 540
 acgcggaaga ccaacgcgaa taagtgtcac gcataaggca cgaaag 586

<210> 29398
 <211> 302
 <212> DNA
 <213> Glycine max

<400> 29398
 ctggaactac ttattttgtt ttcattggcgc ctatgcaggg tgaaagcctt ggaggaaaga 60
 ggtctgecta tgttgttgtg gatgatttct ccacatttac ctgcgtctac tctatctgag 120
 agaaaccaga atcctttgat gtattcaaag agctgagtct cagacttcaa acacaacagg 180
 actgtgtcat caagagaatc aggagtgacc atggcagata gttctaacac agcaggttca 240
 ctgaattctg cacatctgat ggcatcactc atgacttctc tgctgccatt acaccacaac 300
 ag 302

<210> 29399
 <211> 510
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29399

cgacgggggtt tgatcgctga ncacaccacc anaactacca agctgtagcc aatggactac 60
 cttgaatagt gacttttaat gacttttcaa cccgcgagcc ctgcgcgtga ggtgaagctc 120
 actaccagcc ttacgtgaaa aaccctgata ttaccatctc cttacagcat ccatgaccat 180
 aggaattgcc tggagcatca gcgtgagggg ttcttagaaa acaccacaac tacgattggt 240

ggctatccaa gcatgatgag ctaaggacac acctgacgta cacagcacta acggttgaac 300
gctcgacatg cacaatgaac tgtacactca cacaggcccc acactcttta ttgatgactt 360
ttctacaaga ctgctcgat tcatcaagaa cacatacgcg tctatgtgag cgcacgaatt 420
caaaccctcc tgacagacaa acccgaggcc actcctctgc tagaagcgtc acgcaccaca 480
tcactccatg acttgctaaa ctcccaaccc 510

<210> 29400
<211> 298
<212> DNA
<213> Glycine max

<400> 29400

ctgcattttt actcctcgag accgacacag cagtcggcaa gcagacgagc gctacaaacc 60
ttcttacta tggccttcaa caaaagcgaa tccatgtgat aatgactttg aggggagata 120
tatttgtggt gcgcatctca aatgcccaaa gggatgctaa tctacactta gtccttgga 180
gggtgcaaga agtgaaagta atccaagctg gtctgctggt caatataaca actgttctaa 240
tcctgtcttc caccgttata ctgctggcgc caagaaaccg gcatgactct tccttaat 298

<210> 29401
<211> 122
<212> DNA
<213> Glycine max

<400> 29401

ccacgactca caaaagactt cgaaaacaaa aaagcatact gaacaccatc ccaatatacc 60
acaaaaccac aacaatacat atgcacgaag aacagtacaa ccaatatacc acacaaacat 120
aa 122

<210> 29402
<211> 341
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29402

tattcntttc attcaattct gagcgtctcg atatatgacg agactcaatc agacatccga 60

gtaaaaagtt attgtcgttt taattggctc agaggttcaa cattaaattt cgagcgtctc 120
gctatattac gggactcaat caaacatccg agtaaaaagt tattgtcggt tgaattggct 180
caaggcttca acattcaatt ttgagcgtct cgatatatga cgagactcaa tcagacatcc 240
gagtaaaaag ttattgtcgt ttgcatttgc tcagagggtc aacattgaat ttcgagcgtc 300
tcgatatatt acgggactca atcagacatc cgagtaaaaa g 341

<210> 29403
<211> 451
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29403

ttgagccaat tcaaacgaca ataactttta ctttttgtgt gatgagnctc gaaatataac 60
gagacgctcg aatagaatg ttgaagctct tagccaattc aaacgtcaat aagtatttac 120
tcggatatct gatttgttcc cgtcatatat cgagacactc gaaattgaat gttgaagctc 180
tgagccaatt cagatgacaa taacttttta ctgggatgtc tgattgagaa ccgtaatata 240
tcgagacgct cgaaattgaa tgttgaacct ctgagccaat tcaatcgaca ataactattc 300
actcggatgt ctgattgaga cccgtaatat atcgagaccc tcgaaattga atgttgaagc 360
tctgagccaa ttcaaacgac cataaatgta tactcggatg tctgattgag tcccagtata 420
tatcgagacg ctcgatatag aatgttgaat c 451

<210> 29404
<211> 320
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29404

tattctttcn cctgtcagag aattgtntc tagactacca atatcattcc aaaccttccc 60
tattcccaca atgatgaccc ctttcccatg taactgaatt ccccttatga tttctcactc 120
ctctaactaa cttgattccc cccactcaca aagcactgca aactaattc tgaactgact 180
ctgttgccct cttggggcct acatgtgtaa accttcagag ggttcccaga attgagcaaa 240
ttcctatcat tattatcgat gcacatactt atttgatcca gctactaacc caatcactta 300

tagatctggt ttctggtcag

320

<210> 29405
<211> 391
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29405

ggaatataat caacaagaag gtgtcattct tcacaaacaa gaagttggct ttttttaatt 60
tttttttcat aagcacttaa ttaccagaaa agaaaataag aaggaaaaat gaaataagtt 120
ttttttaaag ttaaaattaa cttatgctat nggtttgcac atttcaaggc tcaaaaccga 180
acggtagaag gaacattggt atatcattga agatcaaact cattnttatg gatggaaagg 240
tgattcttaa cttcaaccaa ccaaccaagc actaaaatta tttcataaaa taaaaaagtg 300
ttaaaacagt gcaaaaacac ctaagctttn ggggacgtgg attcggagtg actgtataaa 360
atcctagcca tanaaagcan atcatgtaca t 391

<210> 29406
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29406

actaagcttg atctttatgt gaagcagctt gaagattttc attttgtgtg ctagctgcat 60
aatcanaag acaccattgt tttctatctt caactaaacc ctgtgctagt ccatttagat 120
aaaatataaa cataaaaaaa aaatccagggt tttcatgtct actctagtca tgatgatcag 180
gttttgggta atgaaacaca aataactctg aaattttttg agagaactaa ataagataaa 240
tcctaacaat aaggggaaaa aaataattaa gaaaatcaag agatgtacac attacagatg 300
tacaagagag caggatagtg agaccctag atcaaccaag ataaggatat ttagatttcc 360
aatgttntt attatagggt ttaggagact cagatctcca aatggttgtg cccctgatgt 420
tattcctatt gagtaccatg gtcaagttta caa 453

<210> 29407
<211> 431
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29407

agctttttatt tnntgtcttc gccagtgaaa ggatcgatgt ggggtctgaaa aaagggcaaa 60
tttgatcatc ctactangac gactgagaaa actggggcaa ataaagaggg tgaggataat 120
ggagaaaccc atgttgtgac tgccattcct gtacgaccaa gtttcccacc aacccaacaa 180
tatctttact cagccaataa caaaccttct ccttaccac caccangta tccacaaagg 240
ccatccctaa atctaccaca aagtctgtct accgcacttc caatgacgaa caccaccttt 300
agcacanacc ataaacacca accaagaagt tgaatttgca gcgagaaagc ctgtagaatt 360
caccccaatt ccagtgtcct aagctgactt gctcccatat ctacttgata attcaatggt 420
agccataacc c 431

<210> 29408

<211> 445

<212> DNA

<213> Glycine max

<400> 29408

actaagcttc ttcttctttc atactatctc atacttcggt tttttatttc tttctatgct 60
atgcatctag cgccctctct gtgattggga atccccttgc ttcctttctt cctttgatag 120
gaaactctcc ttctctgtca ctttgattgg aaataccctt tctcttcttt tatgcttacg 180
aggctaacga ttgacattct cacactgagt cactgtttat ggtgagtcag gattttggct 240
caagacttga agaatggcta cgcatggtac atgtcacggt ttggcttgcg tcaaagacaa 300
aaacggatgc cccacattat ttccatgaca cagatgcaaa aatgatgata tagacatctt 360
atgcaaaaact ggccatgcat gcacctatgc ggacactcaa gtgtcacatt tttatggtca 420
tgtgatgcta cggctcaaga ttcatt 445

<210> 29409

<211> 436

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29409

agcttataag tacttttcctt acatgagaca naccaaccgc cttatccacc cctaattttt 60
 ggtcccttat ttttttat taaatttcctt ttgctccttt atctgataaa agaataattta 120
 atcattaatc tctcaaattt gaatcattgg tgctatttcg aaacaatgat ttttttaa 180
 cttgcgagac attaaatgca tganaagaga agaatatatt gtctaacata tcgttgataa 240
 ttattttctca acacaatttc aattganaag tcatccgaat aaaggaggat tagagacaat 300
 gatagaactt aatttatcat tccatacatt actcanaaca aatgagatat tntatttata 360
 gacataaatc tacaactcan naaaatcgcc caatgtattg gccaatanaa gtctttttgt 420
 atgggttttt tcttcg 436

<210> 29410
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29410

tctttctggc gcaacgcaat tcatagcaca nacagagagt tatatagga gatggngagc 60
 gacagcgagg cagagaagtc ggtgcagaaa gagaatgaga agaagaagat gttggccctg 120
 gctccattg ctaaactctt tgctgggaag aagctntgca agcgaaccct anaacttggt 180
 cgtagagggt agctttatga tccattcgca ttctctcaat ttgtctgtgt ttttttttta 240
 tttgctgctt ggtgtaggt aagtatatat attgtgtgtt ttcagctgcc gaacacaaat 300
 gcttgaaaag aggagtgaag gaggtcgta aaagtataag gagagggtcat aaagggtctg 360
 tctgttttct ttctaacttt ctctttctca caaaaacatt agaaatgctt accctaattn 420
 tccggtattg tgaatgcaga tngtgtgtga ttgctgnnga acatatcacc gatgatgtca 480
 tcaatcat 488

<210> 29411
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29411

gaaaatgatt attaaacaca caaaatggaa gtactaagta tttattacct atacttaaca 60

gaaaatactt ataacactac aaaatagcca taatttggaa gagtttgata caatttacac 120
aaggttatac acaaaagtta gttgtattca ccgactaaca ccaactagtgt gtgtagctgt 180
ctaggaacat gtctttgttg gaacaattgg acatcaagtt gttgtcgtnn ttggtattgt 240
taatcttgga gttgcaagag ccttccatct tatangctnt gggggaaaat gatgatggtc 300
tntgctcata ggacccctta tctgaagcag tgctctctga attcaaaagg ttcacttctt 360
ttctattact ctcttac 377

<210> 29412
<211> 323
<212> DNA
<213> Glycine max

<400> 29412

acactagtgg agagaccatg cgaagtatgg gtcgaaatcg cacgcgaagt gacataaata 60
cgactagtca gggcgctgac cgtatataac agaaagacta ttgcaaaaa tagtggacca 120
tgtaggaac atgttgaaat taccctatat tatataagaa aaacatagga gacaaactca 180
aaaatattgt gggtcagcaa gataaatctt atatagcgat gcatatgcta cattccctat 240
tcaactcctt tgcatcagag ctacgacaaa agagccgaac acaataaaga gatacagggt 300
taaataacta aatggagagg aca 323

<210> 29413
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29413

agcttttgtt catatatagc tgcaattaac aagttttata ttataagtca tttaatgtat 60
tttaaagtgt gatacataaa tagttttgtc ctcatctgta catccaaatc tttctatgca 120
gtgcattgaa gacattaaag actacttctg acggtaaaat tgatcaacct acacatctgt 180
gattgaagtgt aagggttagtc atacaatcaa tgggtattta tgactgttga tgttgtgtaa 240
catctgaatt gtaagattga attatttttc atattgaatg tagagtcacg ttcaaagcgg 300
aggccatgag tgtggctatt atgtcatgca ttggatgtag aacatagtga gtggngagtt 360
gaagaatgaa tggagcatgg tatatttact tttgtataaa aattacnttg agtaacactt 420

tta

423

<210> 29414
<211> 396
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29414

agttattccg aagttacacc acctgtgaat ggacaaccat ggagganatt gtttctcgac 60
aaggaatagt tcgggtctaa aacaaattga ggctctctta taaaagaagc ccctagataa 120
tagaccccaa aagaaccact gtaaattgaa aatgccgtaa atcacaggtg aattttgtag 180
attaaatcta actntctcca attccttttc tctaattgta attttgtctt cgttctgctt 240
aatgatattc atgaacttca atcttgatcg tctgtgatca taaaatcctc tagtcatact 300
accattcttg ctttaattact ttatcgccag taataagtca gacaatctgt cagggaanaa 360
cagtgttatg cagtgttacc gacaatgaaa agaact 396

<210> 29415
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29415

tttgttttaa aatgagttgg ttgagagttc caatcttctt tgaagactaa aggagagggga 60
taatgcagct cccattctc agaagctaca agttttcgat tagctcttat gattggaata 120
ttgaactcat ttgcaccctc ggcaatctcc ccaatctaag aggaaaagat tattagtcac 180
ctcaccaagc atatcatagt aacaagaagc tcacaagtca acaaaattac ctgtttatcc 240
tcgaagaagt tggcatcaag cagtccaaag aaacatccta ggctggaaac ataacctttc 300
ttgtctgata attgacattg gtttttactt ccctgattga ttgcaaaaca aagatcagac 360
ataatgaaag caacanatta taaagaaatg ctcaagtc anaacaatta gtgcctgaag 420
attgaccaag ctctatacga attgcaataa gaaacttatt tc 462

<210> 29416
<211> 437

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29416

 ttctttttnt gtaccttgaa cctctnttag aaccatgcta tgtgctcgcg actggtcctt 60
 ttcttccctt cgcaacttga gttcactatt gctaccccat agagctccgc gaaatttggt 120
 ccggccatac tcttcccttg gagccctctt ggtctcttgt tcaagggctc ttgcggtaat 180
 tgcattctct tcccgttaacc cggcacactc cttccgaacg tgtgtagcgg ccaacttgaa 240
 cttctccttg gcaagttntg cctttcctaa ctgctnttg agagtttgga cttcttcgtc 300
 ctcttccggt gcttcaaaac tctcttcgtt gacgactttt aacttggcga gccaatctaa 360
 acctcgata tgaactttca tccattcgtg gtaccacca atgatgccat tacgaatgcc 420
 tctaagctct tgatctt 437

<210> 29417
 <211> 459
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29417

 tgagaaagtc cttctgattn tgtttatata tttctgtctt tattatatga gatgaaatgc 60
 aaagattgga cctcctgtta gttgttatca ataagttgct taaacacttg tgcttaagtg 120
 agacagtagc catgagactg tggtttgagc tactttcctt gaatttgtct tatgattaac 180
 ctcatcta at tgtattgttc acattttggt ctctcttttg tctagctgca tattctgtga 240
 aaacaaggga taggtacaca ttgcttcac tttctcatca tgcaatcaat gaattttgat 300
 gcatacacc ctgtcgcaac ctacccttcg gcgggagggc gacgcgagac tcgcgggatg 360
 cgggttccac gaaaggaata cgcgcgagc cgccaccaac gtttatttga ggaanacgtc 420
 ggannaaccg ganaagacgc gatctacana ctnttaagt 459

<210> 29418
 <211> 419
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

<400> 29418

atttttcntg aggccttaga atactaaagg aagtgtgtca tcctctttct tcatttatta 60
cgaaagtgtg atggaatctt aagtacacca ataattcaaa aaaatgtaaa tttattttgc 120
gttgcgacct ctttagaaac attntcgtca tggagaaaga aagcaacatt gtagttatct 180
ctaaatctaa aagctccatc cgtcactctt attcatttat tataaaagtg tgatgagatg 240
ttatacacca ataaataaat aaaatagatg atgaaaaata aacatcctac atcacttcta 300
aaaaaatgca atttagcaac cgaaagtagt gaccaaata tttcgactga agtagcgacc 360
acagagttaa cgttgcaact cacgatngaa tntgcgaccg aattaatcat gatgttaac 419

<210> 29419

<211> 483

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29419

tgctcgngaa gagagaagag aataagctat cgcggtatgtt aacagcgaaa aagagagaat 60
gcttccgaaa gagggaaaaa aatgcttttt atttttataa atgaacggca aaattgacct 120
ttcattgaat tgctgggtgc accaacaata ttgctgggtg cacctagcat atcccatgtt 180
ataaagaaca aattaagata atgagtatca attgtgttat aatatatctt attcatcatt 240
aaattttatt gatttgtctt gcgtaacatt tctttatttc tttatttctt tcatcggtaa 300
cttacettca cacgtggatt ttaagctcct agaatctcca ttgttaagct ccatataatt 360
gatctgggta ggacaacata gagtttaaca taatgacaat ggatgatagc taagtcttaa 420
ttgctctgag ttgtcattct atccgtgatt agataaatga tgagtgatgc ttaatatgaa 480
tct 483

<210> 29420

<211> 644

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29420

ccgccgcact cacaacagta cacgtantca cagcgtacac cccgcctanc acacntncnc 60

tccccccccc cgcgcgcggg gnattgatgc agtcgnatag caaccccatgc aanactcaag 120
 canngccgac taacganaaa gcanccaccac agccccccac ctctcctgtg ctttancacg 180
 agaagaaaag agagccatag cgaccgcacc gggcaagaga agcaacactc gctccgctaa 240
 ccgccaataa cccaccatgc acagagaaac gagcgactga tgacacacac cataggactc 300
 tgtgcataac cactcagatg accgcagcga acaccatgaa caaaccccaa ccaaaacata 360
 atcacgaaaa ctcccagaat caccgcgaca cataaaacaa gcaggcccaa tcacagataa 420
 aaacggatag atagacgccc tcgacgagac gccaacagcg caacagggcc atgacaaaaa 480
 cccagaccac atatagagga cacaggtcac gtgcctgaca ggagaggaca tcccatgac 540
 gaaagaccag atatcgatca gaccagatgg aagacatgac caaacggcat cgtaggaagc 600
 ctagccagaa aagacacgca actgggacgg aagacgtggc cacn 644

<210> 29421
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29421

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 tgaaagttat tgtcatttta ctctttatag agctttcggt ntcaatttcg agcgtctcca 120
 tatattaaag ggctcaattg gacatccgag tgaaaagtta ttgtcgtttg aattttctca 180
 gagctttctgt tttcgattac gagcgtctcc atttattacg ggactcaatc ggacatccga 240
 gtcaaaagtt atagtcgatt aaatttgcac agagcttttag ttttcaatta cgagcgtctc 300
 gatataattac gggatacaat cggacatccg agttaaataa tattgtcggt tgacttttct 360
 tagagcttcc gttttcaatt tgagcgtctc gatataattac aaggctcgat cagaca 416

<210> 29422
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29422

ntgagcacat tcaaacaaca ataacttttg aatcgaaggt cngattgtgt ctcataggat 60

atcgagacgc tcgtaattga aaacagaagt tcttagaaaa atcaaatgac aataagtttt 120
aactcggatg tcttattgag ccctgtaata tatcgagacg cacgaaattg aaaacggaag 180
ctctaagaaa agtcaaacga caataacttt taactcggat gtccgattga gtgccgtaat 240
atatcgagac gctcgttaatt gaaaactgat gctctgagca aattcaaattg acaataactt 300
ttaactcgga tgtccgattg agtcccgtaa tatatcgaga cgctcgtaat tgaaaacaga 360
agctctgagc aaattcaaatt gacaataaca tttcactcgg atgtccaatt gtgtcccaga 420
ggatatcga 429

<210> 29423
<211> 514
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29423

cgccagttgt tgttgatcgt tgancncncg gcaatacagc gcggccgccc ggatactgta 60
gagncgacct gcaagcattc aatcnatgag gcaacaacgc gcacaccac caagagcagg 120
gatgccgagg gcagccgcat ctctttccac acacgaacga gagaggagca cacacatgac 180
acggccccgaa gttagtctag cctcttattg tgaagcaagc tctccttttc tacttggtg 240
ctgataaagc atgatttgct atccaggctc cactctttaa cataactaac aagaatgatg 300
gcgaaactgt cacggaagtg gccctgtctc atatagcaag gatgcattat cgtgtaacca 360
gatgagccaa gtatatgatt ctgcatatgc gccggattac ttaaaaaaga tcttttgctg 420
aagagaacac tacgtaacgt aagaattttg gttgcaatca ttctgagatt cattcaagcg 480
gacatctgac tacttnctaa ctgcacccta accg 514

<210> 29424
<211> 422
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29424

atcttatcca ttntagcttt caagatgcta ggttgacctt gtgcgatggt tttgatgaag 60
gtcccattaa tggaacttaa tggctagccc tatttcgcta gatgtagga atatcattaa 120

tagtatattt ttgaatgagg atacggttaa tgttgtgata tgggatgccc cccaaatggc 180
gtttactcca ctaaateccac ataccagtgg ctactcaaa ccaccttcgc caatggaaac 240
ccaacttcgc aagactccta gatatggtct ctgcatctct ctgaacatat canacacttt 300
ntatggtcca ccgatcacia aaagtctccc cactaaaagn ttttgtcttt acagacatta 360
tttctagctg cttgtgtagt aagtggctca tctcatgaag aaactattct tcatctcttg 420
aa 422

<210> 29425
<211> 468
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29425

tacccttatg gctggcctcc ggacttcact ctttgtgctt ctccggaaga tgtgagccaa 60
gccctacct tcaaggggca acttcctcct tatgccgatt acccctgca agaagacgac 120
gacggagaca cccatctggg ccctctgctt cccctcaagg atccagctcc ccatgaacta 180
ccccaaccaa acatagtccg ccatgtccca tcttcaccg caccgtaaa agaatcagtt 240
ccattcacag aagataaggg aaagattgat gcgcttgaag agaggctaag agcagtagag 300
ggcctcggta attaccggtt ctgagattta gtggacctat gtctcgtgcc tgacatcgtc 360
atccctccca agttcanagt accggattnt gataagtaca aagggacgac atgtccaaaa 420
gggcatcttc ggatgtattg ccgaaatatg gnggcgtatt ctgtggac 468

<210> 29426
<211> 436
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29426

agcntttatt ttnttgaat caaataaaac accaagatag tctcatattg taaaattgcc 60
aatcgtgtc tcaatagaat taattgattg atctaatatg tataaaaaat actcgatag 120
aaaagattct tcaggatgaat gtgtgatctc attactaata ttttcatcaa aatgagaatt 180
tctattaatt ttacgttttt cacgaaattt tggctttata tccatttcga tagccatttt 240

ttctgtggat tttaaagtca atgcaaacc attttccta taatgtttta aataagtgat 300
aagacctttt aaatgatcta tggcaacatc tatatgcata ncctttgatt gtagaatttt 360
gctaatagaa ttgacagcaa acaaaatata ataccanata ttcattccta ataacaattc 420
acaatcttca agttca 436

<210> 29427
<211> 493
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29427

ngtgacgata tttaaaanat gacaccaa ataaataaag ggtaatatta tattgcgaca 60
ttttatcaaa tattgtctat atcacatgct ctgctaaagc atttagtgat atgaactata 120
tacaatattt gataaaatat atattacaaa aacatattaa taacaattat tcatatttga 180
tgatattttt taaatgttgt caaaaactat tcacaatatt ttactaaaa tgtgacggtg 240
tatataaatg ggtagtaa atgaatcctt ggatcattccc tagtattagt acaactattc 300
atgtatatcc acaaatgtac gtagatattt attaaaatat ttttttctaa gaagtaaaac 360
ataaaataaa aattgaaata tatatgtata caaacataa attagaatta ctctatatat 420
gataaagaac gntaaataa tgtcacatta cacgtaccta catgtatgag tacctcatta 480
tatatccatc att 493

<210> 29428
<211> 431
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29428

agcttctact atgtggcang gcgggcttcc ttcactttct tgtctccaac gcgagctttg 60
accactgttc ttccttcccg cgatgcttct tttcatgtcc gcctgagtag gcttatagcc 120
taaaccatac tccccacgat ntccttgggt atntatcagg ctagttatgc cgcggttgtc 180
tttgctaaa cccatcccg gttcataacc gttcccaac ataactcggg ccatcattac 240
cgctgcatcg gacagacaag gctgccc aaa gagggagtcc acggaggata tgctgaccac 300

ctcanaagac tggaaagtag tttctaacga ttcttctgcg gcttccacat aagccatgga 360
 ggatgggcag cttaccaaga tatcttctcgc gcctgacacg atgaccaagt gcccctccac 420
 tacgaatttc a 431

<210> 29429
 <211> 479
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29429

tatgcgcata cttcttcacg aacgttcact tacacaagat tntttttatt actaagacna 60
 atgcacccat atacaatcaa ggcaccttcg ttacctagat tatttacatg tacttccaag 120
 gagtatttgt tacctacatc acacacattt cctttgctaa attcacatac atgcatactc 180
 taagcacttc ggctatcaaa aattcacata catgcatact ctaaagccgc atgcaaattc 240
 aagtatattt tcttttgctc actaaaattg tattcaaatt aaaaggtatt tttgtaatgt 300
 attttcttta cataacatgc aacatattta tagatctttg tgagacattn tgactaccaa 360
 aaattatatg tacatacatc caagtattct gctaccattc ccaaagtgtg catttccaaa 420
 ggtattttgc tacctattct aacctacaca tgtatgatga agcagaattc taacctatct 479

<210> 29430
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29430

agctattggt acgattcact gngacagtca aagtgtcatt cacttaacaa atcaccaa 60
 gtaccatgag aggacaaagc acatagatgt gaaactacac ttcacagag atgtgattga 120
 atctgagaag gtgaagggtgg agaaggtttc acagaagaaa acctgggtga tatgtttaca 180
 aaatccctct ctagtgtcaa gttcaagcac tgcttgact tgatcaattt tgaagatgcc 240
 taaagcagat ngatagaagt gcagccttga atcacaatgt agacacttgc ttgattggag 300
 tcaagggtga gatttgtggt gtgtgactca naatcacaat tggcacaagt gagaaggctt 360
 tanagtgggt ctgtcataac tgttntcagt tattataacn tgaattagtt tggcaccaaa 420

gtat

424

<210> 29431
<211> 487
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29431

tgaagtgaga cagtgtggaa tagtcagtct tectactttt tntgttgacc acagagtcag 60
tcttctaca cccggagata tgtcgcggcg gtcaggagac cttgaggaca tcaggtggag 120
tgctattgcc cagaaccaag cttgaccaat cccgacccaa cccgggcata gtcagtcagt 180
gagaacctgt gacgtaccta aacaggcgag ctcttgccag tcaaccaata aaagaacaaa 240
aaccacaaag cacggaggct tgtgtggtgg ctggccagct atggaacttg agtgatattt 300
ggaatatggc ctctggtaat cgattacaaa ggggtgtgtaa tcgactacaa ggcttacaaa 360
tggggtcagg aagttgagat ggcctctggt aatcgattac caacgggtgt aatcgattac 420
caggcttaga tatagagaca atatgttgag gaggcctctg gtaatcgatt accaatattg 480
tgtaatc 487

<210> 29432
<211> 339
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29432

ttcacgagag cttccgttgt tcaatttcga gtgtcactat atgtgatgcg cctaaattgg 60
acattcgagt taaatgttat gaccatttga gattctcaag aacttccgtt gttcaattct 120
gagcgtctcg ttatgtgatt tgcoctgaatc ggacatccgt gtgaaaagtt atgaccattt 180
gaatttctca agagcttccg ttgttcaatt tcgagcctat cgacatatta tgcgcctgaa 240
tcagacatcc gtgtganaag ttataaccat ttgaatttca tgagaagctt cgttgttcaa 300
tttcgagcat ctctacatat tatgcgcccc aatctgaca 339

<210> 29433
<211> 434
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29433

tgggaggatn gatggngacc cggtgttgag agaaacgatt tatgggctac gtggaagtac 60
gtgagctcag ttggaggtgg gcaacagggg atggtgggtt tatgcgcgca ttgtggatgt 120
ggaaaacttg ttgtgcacca tcgcccagacc gccacctagt accacatgtg atgggtaccc 180
cataatccta caagcttgag atgaggaagt gttgaagggt gaaacttctt gctttttattg 240
ttgaccacag agtgggtacct ggagatatgt tgcgggggtc aggagacctt gnggacgtca 300
ggtgggggtgc tattgcccac aaccaagctt gaccaatccc gacccaaccc gggcatagtc 360
ggtcagtgag aacctgtgat gtacctaaac aggcgagctc ctggcagtcac acagataaaa 420
ggaacaaaga ccac 434

<210> 29434

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29434

agctttttaat gtgatttata aaataagtgt tcaagattga atgaatgaat taattgaaaa 60
gcaaatcaaa gccttgcttt tatagactct tcatgtctgg ccaagaggac catttagaag 120
agttacaact tttagaataa cttanaacca atttgaaaaa gtcaaaacct ttttgaagag 180
ttacatcttt cgattttattc agaaacaatc actggtaatc gattaccaa tcaagtgaat 240
cgattacaca aggcttttat gtgaaaggat gtgactcttc acatttgaat ttgaatttca 300
acattcaaag ggactggtaa tcgattacca aaacattgta attgattaca gctttttgaa 360
attaattgga acgttgtaaa ttcaatttga aaactttntc anaacaattt tgctactggt 420
aatcgattac aacaatctg 439

<210> 29435

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29435

atcaacatgc aactntgaaa atgtataata aagtcttttc ctggcttcca tagggttcca 60
aaactcaata aacttcatat aaagccaaca ttngagactc anagttgana accaatcggt 120
tcaaacaata aaactcatta caattcanag aataagcttc ctttaacgat tcaaacacaa 180
aagatgactn tgcaaagaag gaaaggaaag aagggtgagc tttaggtcca agagaggagc 240
tttctccac tctacaaca accacactac tgatgcatca accaaacccc anagtcaacc 300
aaaaatagaa ttaaccccc cccccccaa atcaaggttt tccatgaact tccatgggtg 360
ctaaagagaa aatgaanat ggaattcaag agagggaaaa aaaagtactt acta 414

<210> 29436
<211> 321
<212> DNA
<213> Glycine max

<400> 29436
caccttctcg ctaagccaat ctgccttggg gtgggcagcc caccgtctaa tgaaatacat 60
gctgagccat actacctgct tgggtgtcaa gatggatccg gtttaagtata tcttcgagaa 120
gctttccctc acgggacgga tcgctcgatg ccaagtgttg ttatccgaat ctactaatg 180
tgcgctaagc agttcataag tgcgctaagt gcacgagcac gaacaaggcc acctatttaa 240
gcttgaaatc agattttaga gagggagttt ggactggaat tcagagcttt gcatgtctag 300
agtttctagg gagagaaagg t 321

<210> 29437
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29437

ggtcacatgt agatcttatt gtggacccca acatattagt ataaatgtta gcatgcttat 60
ctctaaagaa aacagaggaa gctttgatga tgcctaagaa gatcttttct ccaaggtggg 120
agctgtagat atggaatggc caacacaaaa aatagaaac aaactttcat ctacctaagc 180
ttttcacatg cacaacaatg tctcaaggaa tcagtgaatc taatcctcat ctacagtgtc 240
aaccattttt taacaactct gattggactg tgatactaag tcgtgaaagt aaactcagtt 300

aaactttcta aggtacccaa accatgtaat tgttttacca tatntttaga taaactcagc 360
 agaattcctc aacaaatggg tttagccttc catcacatgg aagcaccttt aacaatcaag 420
 aagtgggctt ttagagatca caccagaata cat 453

<210> 29438
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29438

agtcttttaa taaaaaatnt cctgataacc tttcaatgac aatgtcaaca tctgctttgc 60
 tctggggacc atgtatgagg acccttgtaa ggttcaaaat gtcaccatag tcaccatac 120
 taagtgccat ttcattagaa gtttgagaag gcaagtcctc ttcagtcact gcacctatat 180
 gaggaccgaa taatggctgt gagactntgg atccagcatc aagtctgata caaattatag 240
 ccattgcata cgcaactcca ccaaaacctg tgtgtgatac aaaaaggtaa ctacctgcag 300
 agctacaata aagcaagagt ttagaagtta gtacattgct atattcaaac aaagaataag 360
 attaacatgg agggattaca gtttctagac aataaggata cagactcaga acaaatgaag 420
 aacatt 426

<210> 29439
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29439

cgagtaatag aaataagatt ctatcataac tagagatttt gtgttaatta attntttttt 60
 tactaattag tgtctttaga atattgatta aaaaattaaa aaaatattta ttatataaat 120
 aataagacag cataaaaaaa ttataaagaa gataaatcca ataaaatatt tttactttaa 180
 tttttttaat caatatcttt agaatactta ttaatatatt ccttgaacaa attcctaaac 240
 actaaaacta tttatatatta ggcataatttt taacatctct ggaaacaaac aagacaccaa 300
 aaacttaaag tgatggaaca gaaggaatct ccaacagcaa ctaattaatc ccgcacttgg 360
 ggaagcgaac aagaaaactn tatcctccca ctttctcttt gagtaccatc accacttgca 420

ttgctaggaa gagt

434

<210> 29440
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29440

gttttgaatt cttctatgcc ccttagggtc ctccttgctt tgatgtcttc atcttcattc 60
ttctacaatc ggtgatcttt ttctttgttt aaagcaagtt tcgaccgatt aattgtgtcg 120
taatctcact taatcaccat ttaaatgaat ttcaaccaat cgtttgtggt gtaatctcgt 180
ttaatcaccg ttaaaataaa attcaaccaa tcgtttgtag tgtaatatca gttaatcata 240
naaaaaaaag tttcaactgg tcatttactt tgtaagtctt cctttaatga gttggaaaat 300
aaccaaggaa aaccaaagct aanatcaact cataatcaag cttttgtcca caagaaaatc 360
gcttgaaccc gtccaaaggt ccaacgcctt aaacagtctt ntttaacttt atcg 414

<210> 29441
<211> 325
<212> DNA
<213> Glycine max

<400> 29441

tgccacccaa ctgcccgaag cgagctacag agcttactca taggcaaccg acatctggag 60
gaacatactg gaaggcccaa gagggcctgt taagcgatct gcaccctcat aattactata 120
tacacccctg cgtataacag gtgatgcttt tgccctaacg atacggatac ttacgagttt 180
ctcaacgata cttgttacct tatcgcatgg tcagagaccc ttacgcgtac ttacatcata 240
cctaacatgc cttccggaac gtgacgaaac tagacgaatc gcgaactatg ctttctgcag 300
gctgccaaca tgtgtccaaa atcta 325

<210> 29442
<211> 364
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29442

attangtgnc ttattgngc taccataa agctgcatg aatatgtcac ggccatgctc 60
 ttccttgcca gccctcttg tttcttgctc aacggctttt gcggttaattg cattaccttc 120
 atcgaactca acacactctt tccggacgtt tgtagcgacc aacttgaatt tttctttggc 180
 aagtctcgct tttcctatct cggttatcaa agctcagact tcttcacact cttctggagc 240
 ttccaagcta tcttcgttga taatctttaa cttggcgagc caatctaaac ctctgtgtacg 300
 aactttcagc cattcatgat aaccaccaat gatgccatta caaatgcnc taagttcttt 360
 atct 364

<210> 29443
 <211> 254
 <212> DNA
 <213> Glycine max

<400> 29443
 tgagagactg atatgtagtg ttcaaagtgg cacaatgacg ctgcttgacc attacacctg 60
 tatttgaagt ccacacttca gagttgatga tatagccac gccgcccttg accgaattga 120
 gactctctac tacttactaa tcgcttgac atgatggatg aacacacttg tataggtgcg 180
 gactctaaga cactcatgga tgtgaacctt tgacctgatt cttcttcaca tggagagcct 240
 gtatgctcac tgag 254

<210> 29444
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29444

ttttttgata tggagatcaa attgaccttg aagctatgta tatatacaac atcctctaag 60
 tatagaaact gagaaaattg cactgtgcct acatgagttg caatgactgt gtggccaatg 120
 ggaagcttaa aattatggga tttatcttct tacaagaaga aaataagtaa ggaaaagtta 180
 tgacatgatc agtggcttct gaattgagta tccattcatc tggacctgtc ttgcttacac 240
 tacaagtaat ggataagaca ttacctctgt gtgcattgct ggaaccaatg attgtactaa 300
 tttgattcac atgntgaatt gtgtgactcg agctctattg ctacagcang gccattagag 360
 ccttatattg ttgagaagtc aactntatta tagtactttg ctcatcttga ttgttggtta 420

ctcattggca ag

432

<210> 29445
<211> 483
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29445

taaataactca gcttgaacaa ttactggcct tcattaactg tcttttggtt tgtggccacg 60
ctcaacaaag tactttcgac acctactgta cgttgatttc accaatgctg ttatgggaat 120
gttgcgacaa tcctttaaaa ccttattgat acattctgag aggttcggtg tcatgtggcc 180
atatcgacgt ccttctctat cgtaagccat cgtccatttt tcctttgaga tgcgatcaat 240
ccatgttgct atggctggac tcagttcacg aaatttttct aaattntgat cagaaatgtg 300
cttgcatgga gtgtaggctg cataaaatta gttatgaata acacatttaa gtataaatga 360
aagtaaaata aacgtgacca gcanatatga gatcttacc c aatttcttca acatttcttt 420
gtgtttgcat tattgaatct tcgattgaca gtgcttgat gtgtcgaca cagagacatg 480
ata 483

<210> 29446
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29446

atcttggttg gntctacttc tctgatcatc tggttaataaa gccaatttgg aaaatttctt 60
gggactcact atctcaagtt tctcagtaat ttccttgaat gctggaacaa ggccacgcct 120
tatgaagcac ccttctataa gccgcacgca atttaactcg gggagactag gagcatcttt 180
taactccaga tccaagcaaa atggggagtc ttttagccac atcctgagag agtgagcctt 240
ggccacaagg atgccttgct gtgtcttaca aggaagaaaa ggcatccca tttccanag 300
gcatgccttc aatgtgctgt caagagatac catgttatac tctngctgtt cccgtataag 360
tacaactgga tttggtgact ctggat 386

<210> 29447
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29447

cacattggag aagttntatc cactgttcct acaattgttt gggcttattt tttttttatt 60
 aagtcttcat ttaaaagtgc aaaatcctta aacatatttg ttcattcttc aacttcattc 120
 atgtgacaac acgaattaag ttattctgtc tggagaacca aaagatgttt tctgcttggt 180
 ttttgtttct ttcattgcat aaattcgagg attagcagac ttgtatattt gttttgttga 240
 ctttgtaatg actcttgaag ccttcttatg gtaagctggc ttttgtagga ataagtttct 300
 tgtgatgaaa agagaatttc ccctcttgat tgacagggaa caatatgtac tagcaatggt 360
 tttcggtgaa gtgaattaac acaaacatat acatgcaacc gtgtttcgag tttcaaccaa 420
 tntagtgaaa ctaaagttag aactaanagt cac 453

<210> 29448
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29448

ttcnttgatg attnggnctt tgccagtgaaggatcaatg tgggtctgaa naaaggaaaa 60
 tttagtcatc cttcttgat gaatgagaaa actggggcaa atgaagaatg tgagaaagag 120
 ggagaaaccc atgctgtgac tgctattcct atacggccaa gtttcccacc aaccananaa 180
 tgtcattact cagccaataa caaacctcct taccaccac ccagttatcc acaaaggcca 240
 tcctaaatc aaccacaaag cctgtctacc gcacttccaa tgacgaagac cacctttagc 300
 acanaccana aaaaaaacac caacaaaaag gaattttgca gcaaatagcc tgtanggttc 360
 accccaaatt ccgttgatc atgctaaact tgatcccata tctactagat aattcaat 418

<210> 29449
 <211> 359
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 29449

taagcccaat aatcagacaa acttggcaca agatgaagga tcagaatttg aggttgtaat 60
gctcatggca accacaagca atgaatcctc caatgacact tcatggtact tggattctgg 120
ctattccact catatgacaa ggagaaagga atggttcatt agtttgatg actcatcaaa 180
gagcanagtt tgttttgcag atgatagcag tctcactgca gaaggcattg gcagagtggc 240
tcttagagac acaaatggaa aagacaçagt cattgaggag gttctatatg tgcttggcct 300
gaagacaaac ctgctgagtc tagggaacct actgcacaag ggaattgtca tgacaatgg 359

<210> 29450

<211> 350

<212> DNA

<213> Glycine max

<400> 29450

agcttgatcat ttttctcccc aggcgagccg atgtgcttcc tccataatca tcccccttct 60
gaaggaagaa tctggaatga ccaagagggg ctggatgcta tttgcacgcc catttgact 120
agatacacac gatgccttca ttggtgattc tgtttgacta aacatacaaa gctttactaa 180
tattgttaca atgcttggtc ttacatctat atgtgacgat gccttacaga ctacgtaatc 240
tacccttga tggatagatg gatgttcaaa acattacgga tcgcgctatt acacttactc 300
ttcattatcg gcatgtcacg caacttctcg gattgtgcta ctatgcttta 350

<210> 29451

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29451

agcttggtttt ttatttgtcc tccatgtata ttcttcttgc cataactgaa atccaaacaa 60
ataagcattt aggtcaaatt gagaaagatg gatctgccat tttgaccaga aaaagaaaga 120
atacnatgta caagaaaact gggatgttat ggatcatgac ataacgtttt ccataaattg 180
agtgagagtg agagagataa tgacaaagat aaaactgata ttattgctta gaaagaaaaa 240
aaccataga gttagataca acagaggat cttaaagagtt ttgacttgag aaactaacca 300
caactaactc taactacctc taactaactt ctaacagaat gtaaactaac tctaactacc 360

<211> 490
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29454

ttgtcctgcc aacaaccacc attgttntgc aaacactcag ttgntttcat gtctgcaaag 60
 aatataatca atggtacctg atatcaattc ttttatccaa aatagcaaag gacaacacac 120
 attacacatt gccaaagtga gatataagat tgggtgagta gtaaagaagg agaggaaggt 180
 cgtgggttcg atccctcctg gtgacaaaaa ctaacaaact gacaattaaa atttgccgat 240
 cataaaaaaa ttacacattt ccaggtgaaa gatgagttgc ttgtaaaagg cacataagta 300
 actaaggagg tagacaagat tttcctagga tgtttgagag gtanggagag aaaacaagaa 360
 atgagcaaag aacctggagt taaacatatt gatggctcag tgggtctcttg gatacctgaa 420
 cagattgcct tgagtactgc tgctcttgac agcttaccta anagcgggta ataataatat 480
 acaattatac 490

<210> 29455
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29455

agcttatggg tattgtaagg agaataaaac aatccanaat caattgtacc tttcaagtaa 60
 cgaagaattc tttttgcggc ttttagatgt ggagaggtag gagccttcgt aaagagacac 120
 acaactccca ccgcatatag aatatcgggc cttgtattgg ctagatacct taaactcccc 180
 acaagactct tgaagatcgt ggagtctacc ttctgtcctt catcaaactt tgataacttc 240
 aagccacctt ccataggtgt gttcacagga ttgcaatcaa gcatattaaa tttcttcaac 300
 acttcttttg tgtacctttc ttgtgagaca aagataccat tctccgtttg cttcacttcc 360
 attcccaagt aatatgacat aagtcccata tttgtcatat canattcacg agacatggac 420
 tccttgaagt cttcaaac 438

<210> 29456
 <211> 465
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29456

gttataggtt tcatatatgt ctcacccatag atcttactcg tcttggagta gactctggtg 60
atgatagttc ttgatcttgt tgttgtggtg gaggtgaagg tggttcacct gggctcttctt 120
cctcagctat ttcttgaggt agttgagcgg gtataagaac attcttttcc actttttctt 180
caccccaatt ccaagaagcg tactcatcaa cttcaacatc tcaactgatg acgagtttct 240
tagtttgcaa gttgtagaca cggtagccct tagagatatt gctataccca aggaagatac 300
ctcgtatagt cttgtcttca agtttgtgcc tcttcacgtc tggaatataa atgtagcata 360
tagatccaaa gacccttang tgctntgctg atggcttctt nccgttccaa gattcaattg 420
gagtcttgct ttttacagac ttnagtggac atctgttgag tgtgt 465

<210> 29457

<211> 428

<212> DNA

<213> Glycine max

<400> 29457

ttctttttat gcctttcagc aatggtaatt ggtgcctcat ttgatatcc attgtgctta 60
tgatgttttg catttaagtt catcgtgttc tgattgcttt ccaatgttta ttttcacgta 120
aaatttcaag gttgcagtga gttttactgt tgtttcagag tcttttatga gtcagggcat 180
tgtttatttg acttcttttt ctcttggcag gtttggttta tggccgaatt ttcacatatt 240
cttgtagatt gtgatgaggt atgttataaa attaaagatg ctccccattg aaatcattgt 300
agccttttat tgaagcttcc ttacatatgc aattgtaa at ggttcccca ctttgaatca 360
ttattgttgg actaggcata tctctgataa tactgaggtg aaaatataat gaaataatct 420
ttagatg 428

<210> 29458

<211> 487

<212> DNA

<213> Glycine max

<400> 29458

tggggataaa tccaccttat caccacaagc caagattatt tgatcaatgt ttttttatat 60

aattaaaatt tatgataaat aacttatatt gtaatataag attaatttta acaatggata 120
 ctttttttaa aaaatattga aattaaactt taaaaaaaaat ggaaaggata ggttaaaaga 180
 gataagacaa atccataaaa aaaatattag ttgaagattt tttaaaataa aaatactttc 240
 gttaaaaaaa tacttccgat aaaaatatta gtctaattat tatectattt tttccttata 300
 taaaacaaga actaatttta aaagattttc tcgggataaa atcagaaact ttttttttct 360
 tatacaaagc taaaatttga atttaaccta attcttgaat agttataaaa atcatccaaa 420
 tccagactaa aaaagagaac ccacgctcta ttatgttgtg tcgtgtcaca aggacaagac 480
 atgaaac 487

<210> 29459
 <211> 434
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29459

agctttaagt tgcaatagtg ctaaggtttc tggttttagt tactccatat tgttgacaat 60
 taacttgggt ttctaccttt gtgatcattt agtttaatgt gctaagttgt ttcaagtttg 120
 gtctttggca agtgtgtaca aagtttagtac ctatcacttt ctatattttt tgttgttcag 180
 acctcactat gaagactaaa agtttcaagt ctttaatatg ttagttttta aatatttttg 240
 gaggtagatg ttgaaggtag ttacgtctgg ccttgtggga gagctcattt tcttgaaggc 300
 tatgtcagtt tttagtaaaa ggctatgtca gttnttaaca gtgttacttt attgctatga 360
 aaaatgttgt ctttgagagt ggtgatgctc acacaatact tagaaacaaa gtatcaataa 420
 atcgtgtatg gaac 434

<210> 29460
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29460

taccncact actaccaca accaccacc aaacctatct ttgtttagaa aatgacatcg 60
 gcagaaatgc agttgagaag agaaaggggc ctatgcttta cttgtgatga caagttttcc 120

cctagccatc gttgtcctaa taagcaatat tttgttcac agtggaaga agaggatgaa 180
 cctgcattac aaccagatcc accagacgag gttgagacag ctggtgaccc cagtttgcaa 240
 gatcatcatt tgtcttataa tgcttttaaaa ggctcatcan gtcttgngac aatgaagttt 300
 caaggatcaa taaatggatt gagagtgtag attctactag atagtgggag ttcagataac 360
 ttctccagc ctagactagc tcaatgcctg aagttacct 399

<210> 29461
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29461

ttctttanat ataactgttt gagaaaatgt ccaactaana agtgaaataa aggaagaaag 60
 agaaagataa gaggaaaaaa agaaaaaaga caggagaaga ttgaggaagt gaaagacaaa 120
 aatgaaggag tgtagcggcc tcgtaggaac atgactgata aagaagaaag gaggtggctc 180
 tatgatgcaa tcctactccg caagggcatt ggatagaaaa actccaagta gattgggcca 240
 gagatgcaag agaaggccct agggttctta tgagccttan ggtagatttc gggcccatgg 300
 gctaagtacg agcccgtta tctttgtaaa tattagatta aggtttcatn tattttgggc 360
 cttgtattta nggctccata atgtaggtag ggtaccctag aaatat 406

<210> 29462
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29462

tgtggcggtc gaggatgagg acgttgttgc tttgatagtg cattttgctt tcaaggacac 60
 tactgttaaa aagaaaaatg aggttaactga tgcaatgagt cagagggggg aaaaaaata 120
 atggtcgaag agaaaaaat aaaagaccaa gaaaaataaa tagaggtaga aaaagaaaaa 180
 gaaaaagaag aaaaagaaaa agttaaaaaa ataataaaga tgaagaaaag agtagaagt 240
 caaaagaaag agaaaagagg aaagagaaaag cttcagataa gggtagggaa gttccatc 300
 ccgtggtacc gtccaagaaa gataaggact gccatctggc gagattccta gacattntta 360

ggaaactgga aataactgat tcctttggag aagctntaca gcagatgcca ctctactcan 420
agttnttgaa aggttngttg acaaggaagc acaagtacat tcaccaggag aatatcatt 479

<210> 29463
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29463

ttctttatgt ttatgaatca agttgattca agaagtttag ataatgacaa agatgtagac 60
aaaaagccca aagaatgatg tcaagattaa atcaagaaca aattcaagaa tcaagagaag 120
tttgatttca agattcaaga aaagatgaat tcaagttcca agagaagaaa tcaagaagac 180
ttcacaaggg aagtattgaa aagatttttc aaaaaacaac atagcacnag ttgtgttttc 240
aaaagagttt ttctcacaag tttctaagtt accagagttt ttactctctg gtaatcgatt 300
cccagtttcc tataatcaat taccagtgc aaagtttgat ntcaaaagtt ttcaactgaa 360
tttgcaacgt tccaattgat ttcanaatgg tgtaatcgat tacaagatat tggtaatcga 420
ttacca 426

<210> 29464
<211> 483
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29464

gctaacctta gttcatcgct gttgatccca tgggtttatc ttatactttg ccacattata 60
tcaccttgac catttataag gccactagtc tcctatggca cctagacttc attcccttag 120
ttttaacaac tcattagatt ctcaattcac taatacattg gacagaaatg tgtataacct 180
tttttctttt gtaaactact ctataagggc tcacatcacc tctctattaa gcataatata 240
ttttacaagc taattacata atatatttaa attggactca tccattcata taacataaat 300
aaattccaat ctaagaagag gaaataaaga taaaatttat acacttagaa nataaggcat 360
ataataaata gaaatttata acaaaaactca attcatataa gtcattctcat atacaagtac 420
atcaacaaaa tattgtcaaa ccaagatatc atagttcaat tactaaacat caccatgtga 480

cat

483

<210> 29465
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29465

tctttcttgt tgatcatagc agattaagga caatgaactc taaagaggga agcgtaatta 60
tcaagtattg aaagtgattg gttcattcca agggaaacgc atacacaatt ttaaaaagat 120
tgagttgatg atatcttcgt actcataaac ttgggtgtacg tgattcttcc ttcaccatct 180
aaagtgtttt tttctttctt taacaatatt agcaccactt atcttgccac tatttttatc 240
tttcatgctc gaactaaact tctaaccat agactttcac tatgtacatg taaaaattgc 300
ctctaattaa tcttcttcaa atcactatat atgttactac cattcttcna agggcttatg 360
ttctctcacc anatcttttg tcatcttcta tccacacaca cacaaaaata ctttgtcatc 420
tact 424

<210> 29466
<211> 479
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29466

ttgttacttt agtgtctaataa attaagtaaa tttttttttt tctganattg caatctttca 60
atttcacatg taacatgtga cttgagtgat taatattaac atttgtttaa ggatcaaaac 120
cataactaagt ggttaaaatg gctaagaatt ttgggattta tttaaatttt tcttaatttt 180
agggaatcgt gtgatagtgc ttttaatactt tcaacactaa aagttaaggt gatttaccg 240
ttgtctctac cttagtccac ttctatcaat gcatgaatta ctttaatttat tataataaca 300
ctcaatcatt atattatcac ccacattctg gattcataaa aaagaaatca tccacattnt 360
ggaggcaaaa taacacacat cagaatcagt ggtcagtggt taagttaaag agaaaacatt 420
tgtacttcga gggtacacta natttagcat ctgataataa cttcggactt tctagcatc 479

<210> 29467
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29467

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 gctcacgtaa ccacaagctg caataatgtg tgaacatgga tagcgaaacg cataatacct 120
 tccgcattga caatgacgac cattcaagtt tactgaccac ttttgtccgt cacgttgcgt 180
 tataagggtg aagctctcct ctacttcaaa ccttgtggag tggatatcat acacgcgaac 240
 gatgtgcgta caagcttgtt cttagttttt cctcagttct ttaacaagct ttgaacaata 300
 tacttggcct tcatttaact gtctttggct tggcagccac gctcaacaaa gtacttccga 360
 cacctactgt acgttg 376

<210> 29468
 <211> 476
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29468

tgtagaggct acaacaagaa agtggctcta gattattatt ttagtaatat agataaattg 60
 gccatggtaa acaatgacac tatcataagt gtgctgctct attccacaat attgggtttg 120
 gttttcatga gtgtccaaca gcatcatcat tgtattactt tgcttttaac agaggccaga 180
 cagctgcttc tgcaattaag ttgacatttg agaataaaat catgtaatgt aattcatgcc 240
 cctctattca tgtgaatact taaatacacg catgctttgt ttgcaaatca ccgggtagag 300
 gggtgattan gtagttgttc aaaggctctg gataatatta ttttggactg ttaaaattac 360
 taaaatttc tagaatattc ttacatataa tatgtatgaa aatggtagaa taccctagaa 420
 ctatagttag tatgaatata gtagaacaat ctaanactat aatatgtatg aatatg 476

<210> 29469
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 29469

tagcttatag tttactttac aaatgattcc aacatcttga aagagagcat gaggatctca 60
 agaaaactaa tcaagctcat ttagatgatt atgttctgga aaccacttca gctggagatc 120
 tacaagacaa ctctgttatg tatgagggtca atacattatt ggacgaaaat gtatccagtg 180
 gacgaaagat tcttcttaag gattatcgag acttggacga cagggtgaaa tctttaactt 240
 caactcgtga agattctgaa gaagagtaca attaaatgct taaacaaaag ctctgatttc 300
 aaaatgacat aaatcttgct aataatgagc tcgataagtt gaaaaacacg acgcgaagtc 360
 ttaaatgaac taccacccga gattgaaaac a 391

<210> 29470
 <211> 493
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29470

tcaacaattg tttaatagag ataaaacaat ntgtacgtat tattattttc atgaatcgnc 60
 taatagagat aaaacaacaa ccaagccttt tcccactaga gagattgaat aacaaccctt 120
 gttataaccc agcaagggtc ctaagatatt gctactaact ttccagcaca ttaaccttga 180
 atgtattgag cttgaatatt taatttaatg gattaanaag gtacttcata tcaccaccaa 240
 atcagtggct aagacaatcc atcatcaa atctcattaa aaaagaaatc ttgacattaa 300
 tgaaatggat aaactttcaa tcatatgagc tattcaataa agtatatgtg gttccaaggt 360
 gctaatatga ctgcgatttg ataattctac gtattggttg tgattataaa tacatgacaa 420
 gaaaacacat ttatagaggt gaagccnna ctaaacagaa tataggataa cattcctctc 480
 acatacagaa tct 493

<210> 29471
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29471

agtggcttat ttataaatct tgtgggtcatc ttctcatgaa tcttatctct ctctcacaca 60
 cacattcttt atcaatttga tgagtttaaa gatatatctt tttaataaac tntaacaaaa 120

ggatattgtg tatgggtgat tgattagata ttgggttttaa acaaaaaaaaa attgtgatac 180
 ggtccttgga agcgaaagt ttccaaaatt gtttttattt tgatttattt tcaaaaccaa 240
 ttcactcccc ccccccccc ctcttttttg tttgtagtt ccatcattaa ttggtatcaa 300
 agctacatct tgaaagttgc tcaagatcac agtttttcta aaatggactt taaacaaatt 360
 actttcaaag aggggtgcttc tcttaatcgg ccaccatt 398

<210> 29472
 <211> 486
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29472

ntatcaaaca atagtntat ttattgagaa ggcttataat ttatttaaatt cacaattcaa 60
 cccacattct tatgaaattt gtctttacat ggattcttat tccttctata ttagtaccba 120
 ttctttgccc accatcaaaa aacatacaaa aaaatacttc ccttatctct ctttgatate 180
 ttgatttgcg gccaacactt tctcttcttc gttctataaa tgcattctac tgtatctaaa 240
 tctcatcttt tttttctcta tttgtgatga gcttatatat ctactttct ttattctttg 300
 cccaaggat ttgtaaaact cttcaaggat tntagatcat actttacctt taacatttct 360
 tgtcttattc ctagtgtnnt gatagcttgt ctaattntca acattattac acccatgcaa 420
 gagtttaaag catntcttt tattcctaga cttgtcttga acanttttat tccacttcca 480
 atattc 486

<210> 29473
 <211> 214
 <212> DNA
 <213> Glycine max

<400> 29473

cccaccgccc cgggagcaaa gcgacgcagc agcaactttt ttcctatggg acaaacacct 60
 aacgcaaaca ctaagagggc accgaagcga gactcaggaa accgaaagag agagacgatc 120
 cagcacggag aaaacatgaa tataactgcg aacactcaaa gcatcaaagg aagcgctcaa 180
 tagagaaaat ggagccaccc agagacaagc gaca 214

<210> 29474
 <211> 339
 <212> DNA
 <213> Glycine max

<400> 29474

gacttggtgt gtgagcctat atggatacta gacatctaca tacacagtag atgtgatggc 60
 acgctgagca acggtgacag gactcaaagt gtatggacaa ccaagtgaca tgatgactat 120
 attaccaatt ttgctagcag agagtgttga atcataggag tgctctctca tctggcattc 180
 ggcacatctt ctagacctat tctgtgtcat ctacaattaa aacaaactgt tatgacctga 240
 taagaaatag ttctactgta taccttacia ctactcaac tctatcatga ccctatatat 300
 aatatgcaga attaccagca cgcatacata taacaccct 339

<210> 29475
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 29475

agcttgtggt ttgttttaat tagaagatat aacttgagaa ggatatcgga gtcacaaaa 60
 tcatcggtca aacagatgaa gaaaggatat taagaatgga aaaccgaaca cactatttac 120
 ccattaataa tcgagagtag atatatctgg cttgcgtgct aataaaagct gcctcagctg 180
 cgaaacatgt gtattattgt gtgtatattt tgagctacaa aaggttttaa catgacgtat 240
 aaagtaaatt cccgtacgga gtatagaatt ggattttcaa ttatttatta tagctagcag 300
 acaggcatgt aaacagcccg tagccatcaa taatgaatta ctataagaag aacgagactg 360
 aattcaaaac aaacgacgct attatgagat aaggcatgat aatgaaatga aggctgctat 420
 acttaactg 429

<210> 29476
 <211> 478
 <212> DNA
 <213> Glycine max

<400> 29476

tgagagagag acaccttttg gttgcaaaca atgtataata aataagtgtg acacctaaat 60

tccaagcatg caaaggttca acatagaaat aacaaaacta acataaataa ataaaggggg 120
ggaagagttg aatttcatga atggattaca attaccaatg gtgggggaaa gatcttcaac 180
agaacttgaa ataaagctga caagtatgct actttttacc accccggaat ctccaatcaa 240
caagatcttg aaagagagat catagccact gctctgacct gaggatgaac tcattctctc 300
ttcctctgat gaatgtctta cgtgtgtgtg tcaaaaagta cagtgaaga tacgtatgca 360
agggtgagag atatatagag gcttatgggtg ttgggctacg gaaggctaac ctgtaacgaa 420
gacaatgtgg caacccttcc attattgggtg gagagataat actgaagaga gagagata 478

<210> 29477
<211> 503
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29477

cgacgccgcg cgaacatact ccccgagaa gaaacttanc cccccccnc cnagcggggt 60
gtgatcgatg acaccaggca atcgacacgc cccggcgacc agagagcgac cgcagcangc 120
attattagat gaacaacacg accaacgagg acgagaaacg aagagacgac aagagcccaa 180
agtcaagagc accgaaagac acctagacga tgacaccaag agcaagacac aagcaggcaa 240
gaacaccgca agaacaagag aactgcgaaa ccagaacaga aacaacagcc agaccaaaga 300
acaagagaac aagacaagaa caacacacaa gaccgacaac agagaagact aatcaagaaa 360
gaggaaaaac gccgcgaagc aacgagagca caggaagtgg ccaaaaacac accaaacagg 420
gacgcccggc gaccgaaacc aggaagagga ccnataccag gggcgaaaac ggaagaggcc 480
gaatgacacg agagaacacg ggg 503

<210> 29478
<211> 286
<212> DNA
<213> Glycine max
<400> 29478

tcgagctcgg acccgggatc cttaatcacc gcggtgcac cttgatttat tggaaggcat 60
aagacaaggc ttttttcagt tccgttgatg gtgagttata tcacagtcgg gttgagcctt 120
ccatcgtttg ggcagatcca acaccacctg gtggctcatt cgtcacctca tgcacgactt 180

cctgccatct gcatagatct ttactcttct cctacaacct tgtgtgccgc tttgcgacgc 240
gtgacatcta tgcgacgagt accttttctt tggcttcagt ctgget 286

<210> 29479
<211> 507
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29479

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acagtgactg atagaattcg tgttggtatc tatctagctg aaagtccacg cacaactctc 120
tttagttggc ctacctcatc acccatctga tgggccgtac gtctgccact agaaccatcc 180
aattcatctt tgtctggcta tccacacacg ctcgacgaca tacatcatca cgaggcggac 240
gtcactaca tccatcatag catactgaaa gagagcaata tattcatcat acacatccat 300
ctatccagag cgggtctagg acagcacacg cgggccacgg agagagaagt agctgacgca 360
tcacgaagaa gtgaaacact actctgaccc ccacatgcac cgacctatgg gaggagacca 420
ccaacagtga tggcttcctc cacggcggag acatactact acgctaccgg aaggatggtg 480
acgtctact cgatgccgtc ttacacn 507

<210> 29480
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29480

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actaatgagg ataagttact aagtgaactg attagtcgct accgccacct atgaacaggc 120
gtgaacacat atttcagacg ctnttttctt ttaatggtca aaacttaaata acaatatctt 180
gggtgttatt ttgttcttct tcaatcgga tttatgtttt agcttagaaa actgtataat 240
ttttaaagtc aaacttttat tatactaatt gcagagatag aattccaatt ctaattagta 300
tttccattaa gagaattatc tgatgatatt tttattattg tcattagtat ttaagttatt 360
attgtattaa accactaggc aaatcctggt ccatttttgg atccaaatgc aatggganna 420

tattaacgca c

431

<210> 29481
<211> 488
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29481

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cagtgtggtg ggatatattg ttgcaccatc ttcgtcgggt agagattccg tacttcggat . 120
gaggtggtga agcacagtac aatgatgaga ggaataattt tgtagtgttt tcatttataa 180
aaatagaact attttttctc cctttctttt agagagtttg cacaataagg agtattatta 240
attatgcggc aatgacggtc tccggccttt atcaattttt aagaaaaata attttagctt 300
ttaacaattg cttaagaaaa agttttaaaa atatttttaa aactttnttt tcacatatat 360
ggaacacata tataacaata aaaaattatg cccctcattt aatttacaca atttcttaga 420
ctntntttat ctntcaacan accacctcac tacaagtgc tctaaataaa ataggtttct 480
ctttatac 488

<210> 29482
<211> 413
<212> DNA
<213> Glycine max

<400> 29482

tttattcatt tttatgcgta gaaatcctga acaattctta gaattatatt ttagactttc 60
acctactaga cgctccatt attccattac aactctagg ttatcatgata ttatttttat 120
gagtgcattc tcttctacct aggagaggaa aggatggacc ttgttgatcc ctttaactcc 180
atcaattcaa tacttcatct tgattttcttg tgcggcatc tccaagggat tgaatatcat 240
gcaagtagtt tagaatatgc aaccatgtgg gagcttgggt agaatacatt agtgaattga 300
agataagcga gagagatgag tatagaagta tgaaattaca gtggatcgag taaatttcaa 360
gtcagaccta tacactcatt caccaatatc gatgtcacca tccaagtcta ata 413

<210> 29483

<211> 305
 <212> DNA
 <213> Glycine max

<400> 29483

gtttctttga acacactacg aacatgctag aaatcaattg tagaattcta attatgtttg 60
 ggtgtccgat atcaattatt tagagcccca cacagttgca agatgaacaa attacaaacc 120
 taaattatat agaattgcac attgatgcta agcaccatt gctgtggggt taattattct 180
 tggaagacgc atacagcatg agagctatct gaactcctcg catcacgcat caaattgggtg 240
 ccaagcctta catattctaa tgctaaactt caaacaagaa gaaagaaagc cattctctga 300
 cctct 305

<210> 29484
 <211> 424
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29484

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 catgagagct tagaaaacat ttttatgcag aataggctta ggcgagcagg cacgcttagc 120
 ctaaattctac aattnttcaa acagaggagg atttgagctt agcgtggcaa ggcgcgctta 180
 gctcaacctc acaaaaaacat atcacagggt tagcgagtag gctcgctaag ccttattcca 240
 caaataggaa aaatagagac gatattgcgc ttagcttagc agccaggctt agtgctgaac 300
 aataatttga aaaattctaa gtgtctgata tagtagtctc actcaacaca caaacgcgct 360
 tagcgagttc accattgatg ctacacagaag agatgaatgt tgcataccct aattctccgg 420
 gaca 424

<210> 29485
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 29485

ctcaagcttg tcgcaagcta gcgctatcag agagtttctc gttatcgga accctctatg 60
 tcttaaaaat atggaattgg gctgagcgac ctgctcctaa gcctattctg cgaaaaatgt 120

[illegible]

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<223>      unsure at all n locations
<400>      29486
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<223>      unsure at all n locations
<400>      29487
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12291

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gtactaatac cgangaccct gctgtcgatt ntgaacaaga agcgaatcga cctg 414

<210> 29488
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29488

agcttgtctt ttagttttatc gtctattcta tatgcaagta tagatagcca ggccaaaact 60
gccagattc catctttctc acgaatatgg tcagaacctt tccacaagca caaggaataa 120
tcacaagata aaaagtttaa aactagggtc taataaagtt gagagttgta ctttgctcct 180
cttaatgcaa tagcaaacac ataccagtcc caaaactttc ttcaccacag actgaacata 240
atccagcatc cattaaatta ccaaagaact tccaaccgtg ggggacctgg ttgtgaataa 300
caattaaata aaataattgc atgtctaana gccatcaaca agtagtttca tacttaaaag 360
acattgaaga gcaatatacc tcanagaatc tcanattcag atgtttggca acaaca 416

<210> 29489
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29489

taggtgcca aattagtgcc ggtatgactc caaatgtctt tgtgacttgt gaggacaata 60
ctctaattaa tattatatgg cctattgcaa cgcacaaagt tgttttgtta atgattcata 120
gacgtgcaac aggttcattt gggagaacag tcaacagaaa gaactttgaa aaagataaac 180
aaaggggcaa aatataaaaag cagttgacct gcataatcca atcacctata ctaactactg 240
aactttgaca gaaattaaga actggacaac cagtgnnntc gaggtaacta gtttgattag 300
tttagtttag tttttgatat ctaaaaagta tcaagtataa ttatattggg gattgaaaat 360
gaacgattta attaaagaaa tagaagttaa gtggaacgtg tatgacaatc gtaatata 420
gttgatgaaa aatggtaagt aaataagcaa aagtgtcgta t 461

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<223>      unsure at all n locations
<400>      29490
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cgaacagccg	gcacaacagg	cgcagaaaga	aaccctcccc	cccccccccg	cgctgtaac	60
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agcatcgga	ccccaaaacg	aggaggcacg	ggaagacagg	cggaacggcg	cagcaacaac	180
aacnagcaag	ggggaaacaa	cgcgcgacaa	aaaaccaagc	cagcccagaa	gccaccccg	240
gaaaaccacc	accagggcga	gacgcaggca	agggcgggaga	gcngggagag	agcgacgaag	300
agcaggacnc	gangcgaacc	aaagaaccgc	aacgcaaggg	caacacgggg	aggaagcggg	360
gacaaaagaa	gaaagacgcg	ggggcagggc	ccgagcaggg	agacgacgag	aggcggaag	420
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<210>	29491
<211>	469
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      29491
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ccaatcaggg	tcactcgggt	tgcgagaatg	ctcataccat	atgagatcaa	cgtacgctta	180
aagaagcact	cacatcgagt	gtctttactc	ccaaggccca	gacttcgaag	aatccgttat	240
ggtctcacct	tgctgattcg	gggtgaaccc	ctacaacaat	tnttacaagc	agacactgct	300
catgaatgat	acaataactca	tgacctcaca	ctcgtgattc	aaacacgtat	aacacattat	360
gatacaattc	aacactgggt	cctaactatg	aacttacact	ttctctntaa	cactgcgcat	420
atacgacttn	ttcaatatag	acactgagac	gagttattgg	ataattcac		469

<210>	29492
<211>	382
<212>	DNA
<213>	Glycine max

<223> unsure at all n locations
 <400> 29492

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 gtgattttcc accaaggaga tgcagcggaa gacaaaggag aagatggtag aggcggcgcc 120
 atccactang gaataagcca tggaagaagg agcttcacca ccaagatgag ccttggataa 180
 gaagcttgaa gaggatgctt caatggagga aaagatagag ggagagaaaag agagaggggg 240
 gagcacgaaa ttgaaggaag ataaaggag agaagttgaa ctttgagttg tgtctcacia 300
 gactctcatt catcaaagtt acaacaagtg ttacacatgc ttctatntat agactaggta 360
 gcttccttga gaagctttct tg 382

<210> 29493
 <211> 489
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29493

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 accactcttt ctttccgaga tgcttctctt tatatccgcc tgagtgggtt tatagcctaa 120
 accatacttc ccacgatttc ctttggcatt tatcaagcta gttatgccgc cgttgtcttt 180
 gcctaaaccc attccgggtt cgtaaccgtt cccaacata actcgggcca tcattactgc 240
 tgcacggagc aggcaagctt gccagagaa ggagtctacg gaggaatgc ttaccacctc 300
 anaagactgg aaagcgggtt ctaatgactc ctctacggcc tccacataag gcatagagga 360
 tgggtagctc accaagatgt cttcttcgcc tgatagatg accagatgcc cttccactac 420
 gaatttcaac ttttggtgga gtgtagaggg aacaactccc actgagtgga tccacgggag 480
 cccaacag 489

<210> 29494
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29494

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catcttnaag agtatatctt cttcattcat angaattgct ttattttacca acatccaagg 120
ttcatatacc tctttgcttt ttttaattntg atatgaatat ccttcgatat gtcccctgaa 180
ttcctacaat cacaatcact aattgattta ccttctttgt cattctcttt cagtgcattgt 240
tgtggcttag ccttcgatcc acttccttta gagcttgcta atttcgagca accaatattg 300
gctagacaaa ctagtttctc atgacaaaata tcctatcgtg gaccatatnt cttgcataag 360
aaacanacca agtgtacata aaccttcata tntatggagg aaatatcact ccatgagctt 420
t 421

<210> 29495
<211> 493
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29495

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gatcatccta ctttgatgag tgagaaagct ggggcaatga agaggatgag aatgagggag 120
aaacccttgc tatgactgcc attcctacac ggtcaaattt cccatcagcc caacaatgtc 180
atcgctcaac caatatcggc ctttctcatt acccatcacc caattatcca caaaagccat 240
ccctaaatca accacaaaac ccacctacca cacaaccaat gctaaacacc accttttagca 300
ctaaccacaaa caccaaccaa ggaaggaatt ntgcagcana aagcctgtag aattcacccc 360
aattctgggtg tcatatgcta acttgctccc atatctactt gataatgcaa tggtagccat 420
aaccnctgct aggtttcctc aacctccant tttcctagga tacgactcga acgcaacatg 480
tgcatatcat gga 493

<210> 29496
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29496

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accattgttc ttccttcccg caatgcttct tttcatgtct gcctgagtgg gcttatagcc 120
 taaaccatac ttcccacgat ttccttgagt atttatcagg ctagttatgc cgccgttggt 180
 ttttctaaa cccatcccgg gttcaaaacc gttccccaac ataactcggg ccatcattac 240
 cgctgcatcg gacagacaag gttgccc aaa gagggagtcc acggaggata tgctgaccac 300
 ctcanaagac tgganagcag tttctaacga ttcttctgcg gtttccacat aaggcatgga 360
 ggatgggcag cttactaaga tatcttctc gcctgacacg atgaccaagt gcccctccac 420
 tacgaatttc agcttt 436

<210> 29497
 <211> 484
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29497

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 agttttaata tttgtattta ttttcattta atcaaaataa ttaggagttt tgatttgtct 120
 taagacataa atgtcttttg actcaatact tactgaataa aataacatgt gtatatcata 180
 tacatacatg tgacacactn tanaatatag ttacaaactt tcatttttat aaacgttatc 240
 aatttangcc cctttcaggt tggttggttag tttccggttt ttggttttta aatgcaattt 300
 caaaacggat acgcattgcg ctaaaatggg gctaagttgg attntagttc ttttcaaaac 360
 aattttcacc tcatttcana aaccaaaaca taggtttatg gcgttttgtt gttggtttac 420
 cctanaccca agagactaac ttctaccttc acgttgctnt ctctcccccc ttcattgtgt 480
 ctct 484

<210> 29498
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29498

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 atgcgttgtc cagactcttc tcgaccgagg tctcctgctt atcattaatt atgcctcatt 120

tcactntttt gcatcaactc cgtcacactt tgttacagga tccccaatat gttgatcttc 180
 tgcataccat taaattgcgc ccagatgctc actccaacct cgccattcat aaggacctta 240
 ttttccgaca aggctgtatt tagattccct tcccaacccc ttttactgcc ttactcttag 300
 aggaatttca ttctttctct ctcggagggtc acacaggggt atcaaaaaact ctccattggt 360
 tacgacaaat atttgattgg ccacatatac aganagatgt tcgtcgggtac atcgcgcaat 420
 gtcccacgt 429

<210> 29499
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29499

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 gagtccactt agaggtaaga gatgagatta ttgcaattgg ggtagaatg aacatgtgta 120
 gggatcttta gaggatcaaa ttgagattta ttttgggatg tttactgtat tgtgattctt 180
 cctatatgat tatgtgaatt tgtttttagca gtttaatcat atgaatataa catattaata 240
 ttattattgt gtgacatgta tataatgcat gaggcattgat agcgtgttgt cttaggatta 300
 tgggagtgta ataaactatg tgtaagtggc aagttgagta tgtgttaaata tgtgagatca 360
 cacatgtgta ttgagatggt gtgtgcattg agttgtgagc tatgaaccat acaatcacat 420

<210> 29500
 <211> 481
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29500

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 aatacatatg tgaggggtag aggggtgcat agtttttgtt agaaatgtca atgggagggg 120
 tttgagtcg cgacctttgc ctctccctt ctccctttca tccttaagac ccctttccca 180
 ccctatttgt tagtttttct tagctgcatg ggtaatctac ttgcctccct ttttgtattt 240
 gccttgtcta gcacactcaa ttagctgcac gtctctcctt atttgtgtat cactcaacta 300

caccacacaa attcagcatc attaccaaga agcaacaaaa ttcacccaaa accacaagag 360
 acccacacca taatccatgt ttgcattnta actntnttgt gaatntgtgc catatggctn 420
 gtctagtagt gctcctcttg tggctgtaaa gacattgaat ggtgttgatc acattgataa 480
 t 481

<210> 29501
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29501

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 gaagaaattg tagatttaaa aaaatgctct tcccaaattt actcttggtg aaaataactt 120
 agatataata ttatgaagac aaagatgtgt ctttgccaag gatggattag agtataatcc 180
 taaaaatcaa caaaagatgc acaaaaattt ctttgccctc actcaaata atagtctctc 240
 cttcttaaca tatttttact gtggtaagaa aggtcatagt gcctcaacat gttatattan 300
 gaagaatgat aataacattg gaaaaatggt atgggttcca aaaggatctt tagtcaaaac 360
 taacattcaa gaaccaaga aaatttatgt acataaatca agaataattat tatatgattg 420

<210> 29502
 <211> 410
 <212> DNA
 <213> Glycine max

<400> 29502

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 agaagagagc acgagcaaaa tagggctcgc gtctgatata ttttaaaatg taagtccaac 120
 atcggttttc aataaataaa aaaatcgatg ttaaagttaa catcagtctt ttggacgaaa 180
 ccgatgttac cttatcatac attggcattg gttttctaaa aaccagatgt taacaaactt 240
 acgttaacat cagttctgca tatatcgatg ttaacagatg cacattatctt acaattatgc 300
 caccgcgctt aatatggcga tgttaaactt tgcttttgta ctagtgcttt taaaatagtg 360
 aagtcataat gtgtctctta tatggcgctt cttttagaat gagcttacct 410

<210> 29503
 <211> 428
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29503

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 attttggttaa tcggttacca gtgtgtttga acgttgaaat tcaaattcaa ttatgaagag 120
 ttacatcctt tcacaaaaat tctttgtgta attgattaca atgatttggt aatcgattac 180
 cagtgataag ttttgaataa aaatcaaaag atgtaactct tccaatgggt ttcaagtttt 240
 tctaaagggt atgactcttc taatggtttt cttgaccaga catgaagagt ctataaaagc 300
 aagacctttg acttgaattt agaattcatt cataacaatt atcacaatct ttgaatctct 360
 ttgaacatct tcttcttctt tttccaaaag ctttctaaag ttntctgggt ttctaaacct 420
 tgaaaaca 428

<210> 29504
 <211> 437
 <212> DNA
 <213> Glycine max

 <400> 29504

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 gggcggtgaa gagacggcat gggcatctcc ttccttctt tctgcccctg atgccccgat 120
 tcttttggcg ttcacgtttg tggaggaaac gtaatcaaac tttctctct tcaatcccac 180
 ctgattctt tcccggcaa acaccagatc cgcacagctg gacggcatgt aaccactat 240
 cttctcatag tagaactg gcagagtgtc taccatcatg gtgatcatct ctctctcaac 300
 catgggagga gctacttgtg ccgcctaata cctgcatcgc tgcgcatatt ctttaaagt 360
 tggacgctac ttcttgaaca tattctgcag tcgatgacag tccggagcca tatcagaatc 420
 gtactgatac tgctta 437

<210> 29505
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 29505

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tgtatgaatt attttcgaat tataaaaatt tataaattaa aatataaaaa aataatattt 120
aaatattttt attattntaa tttacaggta ttttaatttta tcacaatatt ttattataat 180
ataaattaat atattattat atataaaaan ttgttcttat tntattatga ttntaaaaaa 240
actacataaa ctaacatata gattatntaa taaaattatt ttatgtaagt tatacgaatt 300
aagtaaatta aaataacatt tanataatat aagaaattga aaatttatta ttttttataa 360
ttaanataag aatttgtatt aattatatat aaaaataaat ntacatggct cttgtannat 420
acataaaat 429

<210> 29506
<211> 477
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29506

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tttggattca acaatcattt tgtggtagt atagcaattt gccttttaac ttttgacagg 120
catgacaata tgttgagtgc tgatattacc aggaataaat gaagccgcaa ctcaatgtg 180
acttctagtt gtatatgttt tttgtagtta ccatgatttt agccaggcta taatgataat 240
tatcataatt aaagttaatt atgattaaca taattgggtc agtatgtggg agggggtaga 300
tgttttaatt tgtgtaagcg tgtgtttttt agctggcaat tgccaaacta taggtaccaa 360
anatattnta gctggcatat tattaataag aaaagaatct cagtacaagc tttatatata 420
tatctatata taaaactcaa tacaatcata tntctttctt ctaattntat cttgggc 477

<210> 29507
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29507

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atggatggcg cctcctctca cctcctttcc tttgtcttcc gctgcatctc catggtggaa 120
aatcaccatt aaaggacccc attgaagctc anagatccag cctccataga agccccacaa 180
gcaagcttcc atcaagtggg aatcagagca caagagcttc aagtaggtgc tccttaaacc 240
tccattaatt tttttgcttt accttctctt ccattgttgt ttcttcattn tttctccatg 300
tatctcctca catgtcttgt gctaaatggt gttaacatga ttctttaaag tttccaccaa 360
ttaaacttgc tatagatgct agaaattgat ttctatg 397

<210> 29508
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29508

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aacaattatg acctctccag caacaaatac aaccctggat ggaggaatca ccctaacctc 120
agatgggtcca gccctcagca acaacaacag cagcctgctc cttccttcca aaatgtagct 180
ggcccaagca gaccatacat tctccacca atccaacaac agcaacaacc ccagaaacaa 240
ccaacagttg aggcccttcc acaaccttcc ctgaagaac ttgtgaggca gatgactatg 300
cagaacatgc agtttcagca agagaccaga gccctcattc agagcttaac caatcagatg 360
ggacaattgg ctaccaatt gaatcaacaa cagtcccaga attctgacaa gctgctctct 420
caagctgtcc aaaatcccaa aaatgtcagt gccatttcat tg 462

<210> 29509
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29509

ttctttacat gcaatgtatg aatntaaaaa aaaaaaagta aatactggag tctgactctt 60
ttacataatc aagttagtga tatctcaaaa aaaaaaagtg agagtataat acacatttat 120
atatgtcaga gcatgactnt gtctcacaat ataattaatt atactatttt taaaaaatat 180
atgtaatgct aaattaattt ttataaaatg aaaaaatatt aatttatcaa cttgtgcac 240

atacggaac acacactaat aacttttaaat taattattaa gctctgggta gtatatatgt 300
 tacactaaag tcatattagg tcttgattga gtcttattag gggccaatgt aattattata 360
 tttgtataat ctgatataatt atcttttttaa naaatataat atataagatt aaattcta 418

<210> 29510
 <211> 387
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29510

taaccgagac tcgcgctcnc ggttaagggg ccagtanact tcttttatca gattcctggg 60
 ccacatccct gannnncgac ggtgatccac tgcgccagca ccaccagaga gggaggctat 120
 cacgcagcca ctatgcatac cggggcaaga tttcaccat gccgctgcaa agagacgagt 180
 gtggatcatg tgtacctaca tgaccctttt tacacagata taaaagacga tgctacaaaa 240
 gaacattctg ccagcgacc gcaatgccta tctacccta caaaagaatc agaaggctctg 300
 tgtagaccag acatgggtaa gaatgcatat ggttctactg antaatgata ccaactatag 360
 attgctggga tcgcaccac aaagaca 387

<210> 29511
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29511

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 cctagccttg caacaagtcc tagggaagta gatacggaga tggacaagaa aatctgcagt 120
 attgtgagta gcattttgaa agacgcctct gtgcctgaag ctgatgaaga tgtcccaaca 180
 tcgtccacc canatgtttc tgtgcctgat gtcaataaag atgttccaac atcttcgggc 240
 ccanatgctg aagtactctc tccccccagc aaagagagat caacagagga agatgatcaa 300
 gccgcagagg agactcctac accacgggca ccagaacctg ctccaggtga cctcattgac 360
 ttagaagaag tcgaatccga tgaagaacct attgcanaca gggtggcacc tggcatt 417

<210> 29512
 <211> 496
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29512

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 cattaaccta gggaattaaa aaaaacttaa tggctgagtg taactgaaat tgtggcaacc 120
 aaaagtcacc cccaacagcc aacaagacag ccaacaagtc agccacaatt tgggtctccca 180
 aaaggctgat gcctaggttg ccagaattat ctctgtggcca taactcccat tttacgcact 240
 caaattaagt gattcctgag cctaaattga atttcaaac gagacctttc accacgtttt 300
 ggaatcacct catttggagc cttgtagctt gagttattgc catttctata tttctgtcca 360
 gccaccactt aacctacgtt ntaccatccc attaatccat tntatgccaa gaaccacctt 420
 attaagaccc acganattaa ccaccttaat tttcattctt aatcattntc cgcattntcc 480
 atcaagggtt aatcct 496

<210> 29513
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29513

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 tgaatcgcat gtccacttgt aactccaaag tatcaaacct ttcacaaaca aaggtttgaa 120
 gaccatcgaa cctgtccaaa atcttttgaa gaagagagga atcttctcca ccatgtaaat 180
 gtcttcttct atcaatgggt tgagcacctt ttntcaccca agagctatca tgctctttac 240
 ggtaacaaaa ggatgcaatc acaacaacgc ctattagaaa ggatctcttg attggaacat 300
 aacgtttaga atcaagaggg atgttgaagt gttgaaggaa gagagtgact angtgtggat 360
 atggcaatgg agcatntaat cgctatgcct tatgaatgcg atat 404

<210> 29514
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29514

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 taaattaaac taagcttcat cctcagatac ctcttggttg actagactta cttacatagc 120
 ttacgaaagt ttagactaat ttagcctaag ctttttcttc agatccctct tgttggacta 180
 gacttagacc aaacaacatt attgtaacaa catatttaaa accaaaactt aatccgcaaa 240
 tccctcattt aagactaagt ttcaatcctg cttcattcaa gttctaaggc aaaagtacat 300
 ttcccaatgc taaagtcacc taaccaagca cacaatggg tgatcagacc aagagcatac 360
 agaatntaag cactaaaaga atcattagac acaagaaaca caatcaatta gatattanag 420
 taattacatt agttgttctt t 441

<210> 29515
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29515

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 ttgataaatg aatagtttta ggtagtgtaa gataataatt ttgtatagtt tagtttgaat 120
 tottaatggt atatgctaca ttagatttag tttaaactct ttttatgata aattaggaat 180
 agttttacat actctaagtt attaattgta tatggtagat taggaatagt ttacattggt 240
 atatgataga ttaggttttag ttgaaattn ttgtataata gattagaaat agtttgaagt 300
 accgtaactt attaattcta gattagcttt agtttaccat ttntgtccgc cacgttgcgt 360
 aataggattg aaggtctcct ctacttcaaa ccttgtggag tggatgtcat acacgcgaac 420
 gatgtgcgaa caa 433

<210> 29516
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29516

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 tttggttaat tttagctctc tggtcggagt atagacgacg gatgatgtcc acagtccacc 120
 agtctttgtc atctctctgt gcttgctctt tntgacggca aagaaagttg tatatgactc 180
 tgaatgctag atggacttgg agatggattt tggggagcca taatgacttt ntatgtgaag 240
 aatttgtatt gttgctgcca ttcttgacct tttttgggt taagattttg gaccattgta 300
 ttccttccaa ctcttagaaa atcttgctgc tntgactgtg cattgcaatg agccaaggaa 360
 tggcggagag agtanggaca ttgttgcata gtagtgggta atttgtatga caactgttgt 420
 tagtagaatg tatatgtgg 439

<210> 29517
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 29517
 agcttttctt tggtttacac atgactgata catgaattgt gacttgtagg attcaatctg 60
 ggcacaattg gatgaaagca agagtgggtt tcgatatctg tactctatgc tacatttgc 120
 tgctaaatgc gcagcagaat tttgtttagt gcaaactaat gcttgtgtat ggctggttgt 180
 gaataaggta gcacatatgg gagtctgaat atttgctaga cgatcccaac ggtcaaaatg 240
 tagacttatg cactagggac ttccagtaca tatttcaagt cactccaacg gcgaacgaat 300
 tggaacgaac gaaatgctac tgggtgtctt aagtgaagaca aagctgcgat tcttggttt 359

<210> 29518
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29518

catgctgngt tgtatacgca gtgtatcaca gtttttttag agactgcca accgctcagt 60
 aactagctca acaaggacgc tgtgtacntg ctgatgaat agtgcttgaa cgcattcaac 120
 actatataga ccagcctagt gtctactacc gtcattacaa caccagattg gagccaagaa 180
 tttgagctca tgtgtgatgc aagtgattat gttgtaagcg ctgtattggg ccacaggaag 240
 ggtagagttt tccatgctat ctattatgcc aataaagatt taaatgatgc tcaattgaat 300

tatggcacca tatataagga aatgctcagc cttgtctatg ctctggagaa ctcagatcat 360
acttaggtga tcaaagttat tgttacactg ac 392

<210> 29519
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29519

agctttttgt ttgattccat attcagacca cattagtatt tcgaaagttg ttctttttatc 60
aagtccatgc aaaaatatct aagttcattt ggtattcggg aaaggccttc attattttca 120
tcctcaatat ttttttcaaa aaaaaccatt tgtcatgttc tgatccaaaa atatatataa 180
caaaaaaact ggttggtgat tctttccaaa gcatgtcatg ttcaagaaag attttttgtt 240
taagtcccaa aaagagttat aatctacaac tacaccatca gaatatcaaa gcatgcataa 300
attaatcaga ataatctcgc gtaagttttt attcaaaaaa ttcagatcaa agtaataaag 360
tactgatatc taatacgaag cgatgaataa acatatagac aagttctcaa atttcanatg 420
atcatggcta aggaactca 439

<210> 29520
<211> 294
<212> DNA
<213> Glycine max
<400> 29520

ctcgcagagc tcttgatgta tcttgaactc gttcgttgat tgacccatga gacctttggc 60
atgaccctag ccatcatcaa aacatcattg aatcaatctt aaatgatcat gaagctgtgc 120
tcttacagac gtggttgacg atccttagcc gatgtccagt catgcttact aactcatact 180
atccgtgact ctaataacttg agtcctatc ttagataagc tgcatgcttg agagaagtga 240
gacgagattg tgatgctggc gacagatagc gtacaggatg tcacgacatc acgc 294

<210> 29521
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29521

ggcatgcaat gtcttttata tactnnntgt acaagaaatg gaaaagctct gatacnncac 60
ttggttagaa aacaagtggc cctcagaata ttcttanaga aaggggnngg ttgaattana 120
gaatanntca caaacttatt ccctttaatt aaaaattctt aatttgattt ntaacccaaa 180
tcctaagatt ccttttaaaa tgaattccta aataattatt caaattaaac ttactgaata 240
gaagcaataa gcaataataa ataaaagagt ttaagggaag agaaagtgca aactcagttt 300
tatactagtt cggccacacc cttgtgcata cgtccagtc ccatgcaacc cgcttgagag 360
ttccactcaa tcgcaaaaac cctttacaag ttctgaacca cacaaggaca acccttcctt 420
tgtgttcaga tttctttaca acaagagacc ctcggtctct taatccctt 469

<210> 29522
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29522

ntaacatcaa gtttagtaat gatccactaa cctagaattt taagaactta atgccactaa 60
cctaggggaac taaaagaact taatggctga gtataactga aattgtggca accaaaagtc 120
accccaaaca accatcaagt cagctaccat ttggtctccc aaaaggctga tgcctaggtt 180
gccaatggg cccttattac aactttaact aaatcaaact aaagtcgttt tagttgatta 240
acaaaaaaca tatttttttg gtcagccaac ttacaagga ttggaccatt atttagacaa 300
actaaacact ctaaaattga gacagagtgg tgccatttag tcctcctcca tttgagccat 360
gatacaactc acaaccttgg acttttctcc ttgaaacttg agcttgtatt caaatagtgt 420
ggacaacact tgttgaagaa gcttctt 447

<210> 29523
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29523

agtcttttca tataaataat aaaatcatct cggctcaaac aaggtcgtcc aagacttcat 60

gcaataaata tagaaaccta taccctaattg ttacattcta tcagaacatt gtgttctctac 120
 atcctctagc atgaggttct ccatagtcac tcattctaacc atctgtctct acgaacacaa 180
 agttcgaaat catcacaaga tccaaacaca aatagcacac ggngagtggag ttatcacatt 240
 cctaactagt agagagaaaac gagacaacta gatatacata tcattgtaaata gagatacaac 300
 ttacttaaac atagctcagc taattccgcc actgtgtcac ataacatcac atcattcagc 360
 tactcaaaga tcanaacaca atatcactaa atcaatcaat atcaataaat acgcaagcat 420
 tatgcaatag atac 434

<210> 29524
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29524

ttgcacgaga tgcttgatct cctctgcca tcacgtctct cgatctctgt caccgtcaac 60
 ccttcaacct cctctagtgg aatttctctt tttcaaaact atcataatct gatgagatga 120
 atttgtgatt tgnngttgtg atttgtggct ctttacttgt ttttaagttat gttcttgttc 180
 tgggttatga attatgttct tcatttggat tcttagatgt tgttcttgcg tttacaaaat 240
 aaacatgttt aaagaaaaaa aagtattttg tgatgacttt taactgctaa tggagctaga 300
 tctgtcttga cggaagaatt gttttgaacc ttttagttaa gataaataac caaagtgaac 360
 tttttttaa aaaaataaac taaactgaca caaaaagata aaaaaatcac ataagttatt 420
 tagcctacaa aatgacatgt aaccaacatt ttggacacct ttattacaat ttacacagta 480
 ctaat 485

<210> 29525
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29525

ttctngttgt gagaaagcgt ggaagagtca gtcttctctac tttagtttgt tgaccacaga 60
 gtggtacctg gagatatgtc ggggggttca ggagaccttg gggacgtcag gtggggtgct 120

attgcccaaa accaagcttg gctaactctg acccaaccog ggcatagtca gtcagtgaga 180
 acctgcgacg tacctatgca ggcgagctcc tgacagtcaa ccaataaaag aacaaagtcc 240
 acaaatcaag gaggcttgtg tggcggtggt ccagctatgt atcttgagtg gtatctggaa 300
 tttagcctct agtaatcgat taccattcat gggtaatcga ttacaaggct taaaaatgga 360
 gataggatgt taaatgggtt ctggtaatcg attaccaatt gtgtgtaatc gattacat 418

<210> 29526
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29526

ccaagtttct ataaataggg ggagaagtga ttgtgatata gggttcggcc cctgagacac 60
 ttctctctct ttcgaatttg cttggaaaaa ttgtttccgt gaagaaaatc taagccgagg 120
 cgcttctaaa acgtttccgt aacgtttccg taaggaattt tgcgaagggt tcgaccattc 180
 ttgcagcttc ttcattcttt cttcatcggt cttcgatctt caacgggtaa gtacctcgaa 240
 ccaagctttt tgattcattc tatgtaccog tgggtggtcca cattgtgttt cgtgtattct 300
 tattctcggt tcatttactt tgtatacccc cttttgacgt gcttacagca ttntatctaa 360
 gtcatttctc gcttaaccta caactacaac acatatccac cgatcggtcg aattgtatta 420
 tct 423

<210> 29527
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29527

agctttcttg atanaattcc taaagaagct agagcttagc tacacacacc tctctaatag 60
 ctaagctcac ctcttgaga tgagaagcta gagcttagct acacaccccc tataatagct 120
 aagctcacc ccatgacaaa atacatgaaa atacaaaaaa gtcctacta caaagactac 180
 tcaaaatgcc tcgaaatata aggctaaaac cctatactac tagaatggcc gaaatacaag 240
 gcctaaacaa aggtaaaatc tattctaata ttacaaaaga taagcaggct catacttagc 300

ccatgggctc gaaatctacc ttaaggetca tgagaaccct agggccttcc cttggatctc 360
 tggcccaatc tacttggagt cttctatcca atgcccttgc gggatatgat tgtatcattc 420
 ctcccttctt ctcat 436

<210> 29528
 <211> 418
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29528

tcaagcnttt aataagccat atgaataaga attaaatgat ctaattcaat attaacatat 60
 gttttttttt tcctttgaac ttatccaaca tagtggctct gattntgtaa gcactttgtg 120
 tttgtgtttc tgttcatatt aatgaagttt ggcttgtgct ttttctcaag ttactattat 180
 agattaatth atcaggatta tggccaatth taattcttga aaggcatttc atggttttat 240
 ctgttcttga attagtcaaa gacgcttcaa cagtaccatt tttttgtcct tttcatatct 300
 atgatgaatc ttcctagttt ttttcttttt ggagtgtgaa acctgaatat tntgtgctaa 360
 atagtaaata gtaaatagta aatatggngg tgcaatctca ttacttaaata aaaatctt 418

<210> 29529
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29529

actcagcttg ctggtttagc aacttgcagc catcattttc tttgtggaga atgggtattg 60
 gagctggctt ccttctggtt aattatagcc tgatagtttc taactacagc aatattccta 120
 attgcatttg attctttatc tgactataat ttgagtaaata cctaaaatgg ttatctttta 180
 tgttttcagg ggtgaccatg tcaaattagt gagggctgga aagcatcagg tctgatcgca 240
 cacctttccc ttgtaaaagg tttttttttt tcatgaagac attgtttcat ttaaagttat 300
 gctacaggtg gttnttcttg taaaaggacc aatttacttg gtctgcatca gctgcacaga 360
 agagccttat gagtcactaa gggggcagtt ggagcttatt tatggccagg tataatcggg 420
 ttggatgctt gtatgtccca atanaaaaaa tgga 454

<210> 29530
 <211> 307
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29530

atcnttttctt acctatctat ctcccaaagt tctttgcaaa gattcaatgg ataaaaaaca 60
 tgaagttcta attcaagatg ttttctttgt tgcattgggca taatgcaatc actctatgtc 120
 tagcaatgat tttattaaga tgtccctacc tttgagttct actaaaaatt atcctctctc 180
 gagcgactaa tccctaaaac tgatgcatat aaaaccttca atgtatttct actaaggatt 240
 accctctttc aagcgccaaa cccctaaaga tgatgcaagg atgaagcata taatacattt 300
 gttggca 307

<210> 29531
 <211> 261
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29531

ttactcttcg taaagccgcy accactcaca ataaattgac cctcatgtga tgcttnggcc 60
 gacctaatac agccattgag aatcgcgctca ttactatcat acatctcaga gagagagaca 120
 atgaagcatc gtgacacata gcacgaccaa gcatacaact aacacatgcc ttccgtagcc 180
 aaccaaggtt gccatggagt catacttggga gaactctatc tacttcatca cacatatata 240
 tatacatggt ggaacaatgt g 261

<210> 29532
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29532

natttctttc tccctatntt cctataaata gggggagaag tgaaggaaaa aaatgttgag 60
 ccctcctggt aattcgagat cacttgatat tagtgaaaaa aattgtttcc gtgaagaaaa 120

tcgaaaccga ggcgcttccg taatgtttcc gtgggtgatt tcgcgaagat tttcaactgt 180
 tcttcgacgt tcttcgttcg ttcttcgtcg ctcttcagtc ttcaaccggg aagttcccga 240
 aatcaagctt ttcaattcat tctatgtacc cttagtgggc ctcatcgtc ttcacgtgct 300
 attattttca tattatatac tttgcgtacc cccttctgac atgctttagt catttac 357

<210> 29533
 <211> 394
 <212> DNA
 <213> Glycine max

<400> 29533

acgaaggata cggaacttag aaaaactaaa tccttaatgt aaggagtacg agacaaccat 60
 agcgaattat taaacaaaat cggtagttaa ctttaaggta ttccagaaac taccataact 120
 tctgaacata catgcaaaat ggtaacaata agtacctcca atttaataaa tggtattaat 180
 gaagatattg accaaaactg agaaaatgca actgagatat gatcagtatc agaaaagaat 240
 ataaatccaa ttaattccca cacaggaaaa accctctaaa tatatatcaa cgtcaactgt 300
 cctaccttct ataaagaaga aggaatcaat ttaagagtta gtgcaacaac attatagtgg 360
 acatgatgcc agaggagata catcatgata cctc 394

<210> 29534
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29534

agcttggtat tgactcattn tcttgaagga agaaagttcc ttgagtggat gttgaagatg 60
 aaaggaaggt ggggtggatgg ggaagcttgt tgtggaaaag aaattctaaa attttagtgt 120
 gtgctacaaa gtgtttcatt atcatgagag aaacaaggga ggaatttttc gctaggtgtg 180
 ttgtttaaag agagataatg agtttaatag aaagaaacaa aatgacatca tgtggattat 240
 ttctgtggcat aattaagctt attataatat agtaaaccac ttagcaagt gttaattgtg 300
 agaaggggga gacatgcaat cagctagagc aaaggctcct ctgctcaagt ctctaactct 360
 gaagatctct atgcaaaata gtgttttaca actcanatca nactaatnga tttgatcagt 420
 ttaagcgaca act 433

<210> 29535
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29535

tgccncaaga tgaaggtttc ttgtggacga gggcatgctt gtattgttcg atcatgcat 60
 tcanaacttc cgtttgtcca tctgtttgtg gatgataagc tgagctcatc cgcaatttca 120
 tgtcgctcat ctgaaacagg tcttgccaga aaattgctta tgaataatgg gtctctgtcg 180
 gagatcaagc tgcgtggcat gccatgaagc tttctgacga tgtccatgaa caggatgacg 240
 actgagtaag ctgagtgtcg agttggcagc atgcctaggt gtatgccttt tgaaaatcga 300
 tctactacaa ccaatatggc agtatttctg tgaatcggag gtaggcctgt gatgaggtct 360
 aagggaaagt cctcccatgg ccgacagggt accgataatg gacataagag accggcagac 420
 ttcttagtct catacttagt gtgttggcag tcgacacagg ttgctacaaa acattntaca 480
 tcttttct 488

<210> 29536
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29536

tcaactgacc cggatcctta agtcacctgc ngcatgcagc ttattttgcc atctatggtc 60
 ttaaacaatgc ncttagagcc tggtttgata aactcaaggt gcacttctga agtttgaatg 120
 taagtccagc aagtgtgatc cctctttatt tgtctactcc aaagggtcct caacaaccta 180
 tatgcttggt tatgtagatg atatcatcat aacagggat aatccttctt taatcaagca 240
 actcatctct aagctaaata ctttnttctt tcttaaagat cttggttctc tagactatct 300
 cttngnaatt gaggtaaaac atcaatctga tggatctatt gttctcactc aaggaaaata 360
 cattagagac ttgctggcct anactaatat gacagaagca aaacctatnt cttcacctat 420
 ggttactgga tgtaagctaa ctaanagtgg atctgatcca ctcaactgac cat 473

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29539

 tcattcttat attctancat aatccaatat ccagaagact ttgataggga agttagaatc 60
 ctagggaaaag caaggcaccc aaatctaatt gcattgaaag gatactattg gactcctcaa 120
 ttacagcttt tagtgaccga gtttgcccca aatggtagct tgcaagccaa gctacatgaa 180
 aggcttcctt caagtccctc tctttcttgg gctataaggt tcaaaatctt gcttggaaca 240
 gcaaaggggc ttgctcattt gcaccactct ntccgtccgc cgatcatcca ctacaacata 300
 aagccaagta acattntgct tgacgaaaat tacaatgcca agatctcgga tttcggggttg 360
 gctcggcttc tgacaaagct ggacaggcat gtgatgagca acaggtttca gagtgcatta 420
 ngatatgt 428

<210> 29540
 <211> 342
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29540

 gcatccatta tccatagnga gaacacagat gtgtagacta ggatgggttg tggttgaacc 60
 aaacaaatac tgtgctaagg actgcagaaa caactatctg ttcttattag gttaatatct 120
 gatatgtgaa ccattgggtc acacgatact aaattaatgt tttgagggga ggatccacta 180
 cagtagcttg ctaagttgct actgaagccc ttatgtgttg ctcatgcgtt gcactactac 240
 atgggcttgg acacccgact aaaccagttt ctaagttttt atttgagca tgatgctagc 300
 aacatacgac tattatagtt aaattacaga attatttcat ta 342

<210> 29541
 <211> 345
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29541

 attttttaat caaaagacac tgtagtcttt tgaaacataa agcagaggac attgagtcct 60

atgaaaaaaaa acaaatgacg ttgagtccta ttgtcatacc ctgatttcgt ctgaggattg 120
 tcatttccta aaattntcaa ccttgctagc cgaattcagt tgcttgcgct acttgccatg 180
 caatacaaaa ggtttttttaa cgtttatgaa aagaacatga aaatacccaa aggggagggc 240
 aaaaggggtca ttttaagact ttttcaaacc cctggctcgc ccaagctagc ctctgggtca 300
 cttggggccat cgagataact tcatggtgaa gtaattagcc cgcct 345

<210> 29542
 <211> 468
 <212> DNA
 <213> Glycine max

<400> 29542

gggtcaggaa gcacaacttc agtcaagcat ttcaagtatt atggatcctt atgctatagg 60
 catgttcttg ataagaggag aaagaagttg gatgacaaga gtgagccaat gatttttggt 120
 ggatacaact ctactgggtc atacaaacta tacaatccaa agaatcaaca agttctatct 180
 agtagagatg tctactttga tgaattaagc tcatggggag agtttcaacc tacttctgag 240
 acaatacaga agattcatct tgaattgaaa aatgatgatc cagtaggaga gatacatcaa 300
 gaagtgggtca ataacgaacc ttagatgggtg gttgatagac ctacaagagc caaaagtttt 360
 cccttaagac tcagagatta tcagggtttac cctgatagtg caattactga ggatgggtgat 420
 ttgggtcagca tatggcactt atggcagaca tggaacctat tacttttg 468

<210> 29543
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29543

atcttttaag tccaagtttc ttctgccata cccagtgat ttctttggat agataataga 60
 taacattntg atttgacagt tctaataagat tataacaagg tcatgtcttt gcaattttga 120
 gattaacctc aagcttgaaa gtccaagttt cttctgccat atcccagtgat tttcttttga 180
 tagataatag ataacattnt gatttgacag ttctaataaga ttaattcttat aaagatttcc 240
 ttttctctta gtgggtgaaaa gttgggtccc atttttgtct tggacgacac acccatcatt 300
 gccaaaggaa atatcaagtc gactatcaca naattgactt atactaagca gattgtgttt 360

aagtcctttg aanaatagta cattctccat gggaagatag ggatcaatac ttatctttcc 420
tactccatca atct 434

<210> 29544
<211> 475
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29544

taaccattaa gcacaagcca tacacaagac ttaacactat taattacatt taaccactaa 60
gcagaacccg ccattatgaa acctggcttg ctaggaaaac aaaggggtgca aatattttga 120
acaattatga aaaggatgag aggtttgcta ggaagcccga taattagaaa atcctgcat 180
tcatttaaata catctgctga tatagacaag catgcagaat catgttaaac gtttttcttg 240
tgatttggtt ttgatagttt ttatttctaa atacttatta aacatcatgt acaaaaaaaaa 300
tgtggcatgg accaggattt ctagagttgc attctaataa aacatataac agtacatana 360
ggatagagga tcatccatcc tctcttctgt cccgctttga aggctacatg gagcacatgg 420
aattcatctt gtcaatatag ggatattnta gtgtcaagca agcctcaagt agcac 475

<210> 29545
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29545

tgctttataa ttngattntg nttgagttgt gatgaaactg gtaagttgtg atgaaactgg 60
taatattggat gataaaatat aatattataa cttgatagcg ctaatatgta attataacct 120
acaagtgtct gatattctaat ctattaactg tatatatgaa taagttattt aatttttttg 180
gaaaaaaata aaacaaactt gtttaataat taatttaaata aatttcttat caaatgtaaa 240
ggtgcttctt attaataaat atattagaaa agatatatat tatatggtct taatatttat 300
ataatattaa aatgttaaac tcacttaaaa ttgtataaat atttatatcc tanatatatn 360
tataattata tccatgttac tctacatanc aaaatattta tttttattat atntttaagc 420
tctttaatta tta 433

<210> 29546
 <211> 480
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29546

tctagtatatt ataggtcttc ttcaacaagt ttccattggt tctaaatgga tagatttctt 60
 cacttgagct tgcatttgaa gattgtggc gttggagcat ttaatgcttt cattaaatgc 120
 acatactttt tcatgttgaa aaatcactct ttnttacttt cgtgtggaat acttcaacaa 180
 aaatcacttc ctttgtgtta gagtaggtct gtcacagtag agcacatctt ttgatgatgt 240
 ttggcaactt ccaggtcttg agcttcattt tttctttata ggatccgaca caaatccttg 300
 gagaattntt tttctacaaa acgaatctca nacatagatc aacaaatgaa gtttaaattg 360
 catcggtact gttgtatcag atcttggctt ggttctaaact atcgcttgaa atgannacac 420
 ggatgcatga gccacgtca natatcacat aagatgtaac ttttaacctt tgcacttagt 480

<210> 29547
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29547

agtctttatt ctttagaaga gaaagaacat gtaattagga ttacgactga naatgctagt 60
 caatttgta gattgattgt gaaggaatgc tttaaccgta actcggtgag ggtgtgatct 120
 taattgtgag agaaacgact aaaattaggt aatgaatttt gcatgaatct ctgaattatg 180
 gaatgaatgc atgaatctga ggatgatgaa ggtcatgttt gattgtaaat agccacttag 240
 ccaaaaagct gaccatgtgc atgaatgatt tatcccttgc acccagtttg agttgaatta 300
 atgtttgatt gattgaacct tgagcctgca cagttatctc atgctacctt gtcttangtt 360
 gtangaaagc atcattcgta gaaagacttg gttcaaggca naatttgccc cannattggg 420
 agagctact 429

<210> 29548
 <211> 475

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

<400> 29550

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ttacctttct tagcttttca ttggagagtc atcaaccttc aggcctttctc ttgctagtag 120
cattcttcat gaagtctctt gtatgttatg catagactca ttctatttca tgacttattc 180
tagactgagg acctcaattt atcacatttt gttaggggtc agtcagaaac tagtacgata 240
ggctatgaat tctttgttaa taattntagt cttatttcta ctgagcttcg agcttgtact 300
agtaatacta cagcacttan atagtanaac taagagcatt atgtacacn cctattatc 360
agntatcatg ttatctatag tctatactca atactgttgg tacctggctt ttacttcttg 420
ctctaactct tatgaccac aatgggaaag atgtcaatnt ctttaatacag cacaac 476

<210> 29551

<211> 358

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29551

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aagaaactac tgtgtaagat tttctttttt tcttgttag tgttcttgat ttgtgaatct 120
cacttaaatt ttgagcttaa tatgtggcat gcattgtgaa tcacattttt aatctttatc 180
agctaagttg agttgtttat gtatgttgta gggcctttca aggagaaacg aagcaatgag 240
cttaaattct aatagctcan aatcacatat aattntcaca tttgtcattg agtctttgtg 300
taaggtactg tcacaatttg taattctacc taacattacc agcagntgtg tatggaaa 358

<210> 29552

<211> 474

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29552

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tcttaagaca gcaatgtaaa gatgtacggg atgataatag caaggcaa at tgaaatagaa 120
tatgtatatt gttatttcat tgatcctttg catgatatat ataatacatg tacaagaatg 180

ttctatacca attctaaggc atgacagacg tgatccataa tcagtggcat ctgattttatt 240
 ctatgcatta taaggtaa ataatatagaa tcaaggtaac ataggaaagt aaatatatac 300
 acagcatatt tgcaatcatg tagaagatat ttctaatac tccnctcaa gttggtgagt 360
 gaatatcgtg aagtcccaac ttgttgcgca atgtcacaaa ttgatctttt cccanagctt 420
 ttgtaaacac atctgctagc tagaaatfff gtggcacata agaaggattg atca 474

<210> 29553
 <211> 369
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29553

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 ggcgcactaa ggcgacttct aagaattcaa aaacagtaaa agattggcgc ttagcacatc 120
 ctgtggctaa gcccaactat gaaagctcaa ttccagaatg gatttggggc ttaactcang 180
 gcagcgtgct tagcgctact acaataaatt tttccattga agaagtggcg cttagcgcat 240
 catcttcgct aagcccactg cttgaagttt acttccagtg aagatgttgg gcttagcgca 300
 gtgatgtgtg cttagctgaa ctattcaacc aactaatcaa aggtctaagt gcttagcgtg 360
 agcaagctc 369

<210> 29554
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29554

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 caaaactatc atgacatgta gaggagaatc aaggatttca agtcacaaaa tgtcaagaac 180
 ttttattttt aaaacacata cccattttctt gaacatatcc tataattcag agaanaacat 240
 gcaaagtcgt acatgcacan caaattgacc caaaatatta aactanaaat ccgacgaaac 300
 taacaacatt aacagattaa cacaactaac anattaacan aaccaacata actagccaaa 360

catagaaaca ctccccata cttaacaaca cat

393

<210> 29555
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29555

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agtatgacag tcaccgctnt aggagctgct gttacaccag cacgcgcttt ctaggccatt 120
aagggatggt cgtttctctg ggagcgacgc gtccagctca gggatgacga atatactgat 180
ttccacgatg aaatagggca ccggcggcgg gcatcactgg ttactcccat ggccaagttt 240
gatccagaaa tagtctcttg agttttatgc caatgcttgg ccaacacatg aggggtgtgcg 300
tgacatgaga tcctgcgtaa ggtgtcagcg gatcccgttt gatgccacg ctatccgcca 360
actcctaaga tatccgttgt gttggaag 388

<210> 29556
<211> 344
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29556

gttgacagaa caactgagca gaatggaaga gaatatgttg acaatctatt gatcaatata 60
aggagaagat gaacctagct gctagtcata tgcagaggct ggaggatgaa catacgaatg 120
tatcagctct gcanattgaa agggaagcaa gagagagggt gatngaataca tttcacgagg 180
aagctatgaa atggatgaat aggttcgctc tcaactctgaa tgggagtcaa gagctcccaa 240
ggttgttagc cagagccaat gcaatggcgc acgcgtactc ggctccagat gaagttcatg 300
gtcttttcat tactgccaat acatggttga actaatgacc caca 344

<210> 29557
<211> 567
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29557

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 tacagtccat ctacacgcac tctaacatag ctgttttggg atttattcgg cgacacgatac 180
 caaccggagc taatatgacg catatctgat catcttgctg tgatcaaagc aaataacaaa 240
 actgcggggcc tatgaacagg gtgacgatga tggagaatcc tgcgttgctg ctagccatcc 300
 aatacagcca tgtatcctac cagcccagca atgtcgtaac tcacgccata acaaaccttc 360
 tccgtaccca ccgcccagat agtcgaacag gccatcccta agatcaccca cacagcctac 420
 ctacacaact ctcaatgaca aacaccgctg gtacgccaga ccacacatca accaagaaat 480
 gaatctccta tgagaaacct taaataaacc cccatccaga gcttatctga cttagccctc 540
 aaatattgaa agtcacggaa ccctccg 567

<210> 29558
 <211> 462
 <212> DNA
 <213> Glycine max

<400> 29558

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 tgattttaca atatgtttta taacagctac taatatttga attcgatatt ctagactgtg 120
 taatcgatta cacaattttg gtaatcgatt accagcagtt aataaacggt ttaattcaaa 180
 ttttaaaagc tgtaatcgat tacacaattc ctgtaatcga ttactagaca ggattttcag 240
 aaaaatatatt ctaagagtca caacttttca aaggctttat tcatgactac caatgatcta 300
 tatatatgtg acttataaca cgaaattgct cagaagtttt cagaacaaca agtgtttatc 360
 ctctcaaaga gcaaatcat tttatcctct taagaattcc ttggccaatt caatcgcaat 420
 tcattaatga attatttgag tgetcaatct gtaaatcta tc 462

<210> 29559
 <211> 393
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29559

[illegible]

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acctggagat	atgtcgcggt	ggtcaggaga	ccttggggac	gtcagggtggg	gtgctattgc	120
ccaaaaccaa	gcttgaccaa	tcccgaacca	acccgggcat	agtcggtcag	tgagaacctg	180
tgatgtacct	aaacagggcga	gctcctggca	gtcaacagat	aaaaggaaca	aagaccacaa	240
agcaaggatg	cttgtggtag	ctggccagct	gtgaaacttg	attgatatgt	gagatatggg	300
ctctggtaat	cgattaccaa	gggtgggtaa	tcgattacaa	ggcttaaaaa	tgaagacagg	360
gggctaagat	ggtctctggt	aatcgattac	cagtggatgt	aatcgattac	caggcttgan	420
tacggagtca	ggaagctaag	ggagcctctg	gtaatcgatt	accagcctgt	gt	472

12324

tataaattac attgtaatta aaatttattc tagataaata ttaataattt aaattatgat 240
 antaaattat ttttaattggt taatttagag atcgataaag atataagaga gacacataaa 300
 ataagagtac tctaatatgg ctaatagaga aagcttttgg ctagctagct aagcacatgg 360
 tatgtaaata tacatttaaa gatatgaaga tcacataaag agaaa 405

<210> 29562
 <211> 468
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29562

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 atatgtgata agttctcatg tgtgagccaa gctgcttaaa atcttaagggt tttattttcc 120
 ctanaatgag agagatcccc acatataagg agaataacga tgagtgttag tcattcctct 180
 atccaacttt ctagcaatat aacattatga ggagtgtctac gaacacactc tctaccaatg 240
 aacctataac gaataccttc aacatgctca ttaggcatca tgggtccgaat aataggattt 300
 tgcacaagat ctttggatga agaaagaccc tacatgtgct gtgtccact tattgaatct 360
 tgtacgttca tgggatgtta cggtgtntaa ctatggctgc tgggtgatga gggactcga 420
 catcctttat tggcttaatg gctcgcttct tggccgaata ttatatca 468

<210> 29563
 <211> 256
 <212> DNA
 <213> Glycine max
 <400> 29563

agctcgcttc attgaggttc aggatggaca atgcggccga atgaactagt tccgccccgg 60
 agtacaactg tcaccgtttt atgagcgatg gcaccgagca cgcttccaag ctatcaagg 120
 atgggtctgtt tctgcggtta cggcgcggtgc acctcacgga cgacgagcat actgactttc 180
 atgaggataa aagacgcccg cgggtgggcac cactgagtac tcctatgggc acatttgatc 240
 cagaaatact tcttga 256

<210> 29564
 <211> 445

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29564

tctagccaaa gatagaggga gagaaagaga gaggggggag cacgtaattg aaggaagaaa 60
 aaggagagaga agttgaactt tgagtttgtt ctcacaagac tctcattcat caaagttaca 120
 acaagtgtta cacatgcttc tatttataga ctaagtagct tccttgagaa gctttcttaa 180
 gaaaacttcc ttgagaagct tctttgagaa aacttccttg agaagataga gcttagctac 240
 acacccatct aaaaactaag ctcacctcct tgagaagctt ccttgagaag caagagctta 300
 gctacacaca cccatctaan aactaagctc acctccttga ctaaatacat gaaaaaacia 360
 aaaagaagtc cctactacaa agactactca aaatgccctg aaatacaagg ctaaaatact 420
 atactactag aatgggtcaaa ataca 445

<210> 29565
 <211> 357
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29565

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 ggttcgatgt ggagtacgaa tgtgtgcacg tatcatgggt caacgagagt tgggtgatggg 120
 cttgggcttg tcatggatac gtgaactggg ccatcctcgc gaatgcaccc aataacgcaa 180
 ctcactttgg acaagcctaa gtttgtgctt tgttttatat taaaatcatc ttgatggagc 240
 taatttttgc ttgttgttct ggtgctttta tgataaaact aaattgatta attgaatgac 300
 attgcaggta aagttctata atgcatccaa tatacctgtc attcatatat tgaaatt 357

<210> 29566
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29566

nggcagatat agtctagata gcactcgggt attgaacact gcttttggtg catctacatg 60

tagaagaaca caagacgtta gcagctgaat aagaataatt aaacaaaaga atgagaggga 120
 atgcagtggc taaaatacat aacactatgc ctgtaaaca ttaaaagtta tgatataaaa 180
 gtacatgtta ctcttacaga tcaaaattta gattatatcc tccacaccag acttacatct 240
 atatatgatg gatacccatt agtaagtga gtaagttggt ntaacaaata atgcatgttg 300
 cctactaatc ttgtcatttg tgagagaact gtggcctttg ggcattggga agttcaaaca 360
 ctcaaagttc tacaagttta tatctcttat cctttctgat aagatacgat gtttctatta 420
 atatactnta gcaacacaaa gacattcata tac 453

<210> 29567
 <211> 334
 <212> DNA
 <213> Glycine max

<400> 29567
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 actctcggct atgggtttatt tctaaaattg gatttcatat ttgcaaaaaca aacaaggcta 120
 aaatgttatt cgtttttctc tatcaccaaa catacattat atctatatat attgtgagta 180
 ccagaggtag taagcattac atgtaattag attgacttgc caccaacatg gttccaagct 240
 acaatcttat ttgtattgga cgtctagtaa tgtattgtat atattggtag cattctatca 300
 gcggagtcta ttcgagcttt ctttatttga aata 334

<210> 29568
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29568

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 tgccctctgga gtgggagatg gagctgtatt gttacaaggt gggcacccta tagcttattt 120
 tagtgaaaaa cttcatagtg ccaccctcaa ctaccccacc tatgataaag agctttatgc 180
 cttaataaga gccctccaaa ctagggaaca ttaccttggt tccaaggaat ttgtcattca 240
 tagtgatcat caatcactta agtacattag agggcaaagc aagttaaact agaggcatgc 300
 ataatgggta gagtacctag agcaatntcc atatgttatc aaatacaaaa agggaataac 360

aaatgtggta gctgatgccc tctctangag acacacattg ttttgctccc tacgagctca 420

aaatttagga tttgataata ttanggactt gtatgc 456

<210> 29569
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29569

agcttgatta tgaaattggt atacatacgt actaatccaa taaataatca ctaaatagca 60

aaataaaaact aaaaattgtg acttttggtt ctcgatcggn tcaaaggtgt caacttggaa 120

gcaatggaca catagttggt ttctcagaag aatgttctga ttgaattccc attaagtctt 180

aaggtccttg cagttgatca tgacctcact attcttgata acattcttaa tatgtgttct 240

cgatgccact atcgcggtaa tttcaattaa ttgttactat ttcttgata aagatttgat 300

ctttttttat tgatgattgc gtttatgtcg caactgtggc atactctgat gcctcacttg 360

ctattttgcg aggaaactct ggagtcnata tcaaccacca aaaaaacaag attctg 416

<210> 29570
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29570

tgagccaata ttaggaacta agcaatgtat tctattttca caattattgt gtnnttcact 60

ttagcttact caaaattcta agctcaacta atagtcacta aaaataaata ttttagcttt 120

gccataaata aggcttgact gccatttaga aagtgagggg ggagttcttc atttggcatg 180

aattcacagt ccatcgagag gggaagcttc ctttgggctc cactcttcat ctttttctc 240

cctccatgtg ttttgaggct acccatggaa atgggtagct aaatcctcca ccattggagt 300

tagatgcaac caaactcata ttctcttcta tcttttgata ttntaatata tatatatata 360

tatatatata tatatatagt attaagtta gtatttgctt ctttatttaa tgtctgttgn 420

ggaatttcca accatggcat gtttttaggta cttg 454

<210> 29571
 <211> 277
 <212> DNA
 <213> Glycine max

<400> 29571

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 ttatccttct tgagattaaa gaatgcggat gggacattct ttgctttgta aaaaaacaaa 120
 aaaatggatt gttttctttg aagtccatga actagtttgt tgatagaggt gtgattagcc 180
 tgtctaataga tcctttacat ttacatggaa ctggaggtcc tatgacaagg tccaagacta 240
 agaggatgaa gtaagcattg caaggcctaa tcctaaa 277

<210> 29572
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29572

tgccaccag ctcgcccagg cgagctaggt tgcttcctcc agattgcagg agaacttct 60
 ggaaggccct ggttgctatt tgcaccccat tttactaaa tgcacccct tgcctctttt 120
 gctgattctt tttccgtaac gttatggaaa cttacgaatt acgtaacgat acttgttttc 180
 cttccgtaat gttacggaac cttacggatt acataatcgt cccttttttt cttccggag 240
 tgttacgaaa ctttacggat tgtgcactaa cacttccttt taatttccgg catgtcacga 300
 aacttcacgg attgtgctac aatgctttct tttgacttcc agcatgtctc ggaacttcac 360
 aaattgcta acgatgggtg ccaagtacct cgaagtgtgc aaacgagggt cgcacccaa 420
 caatggatgg tcccagacg atattanggt atgacaca 458

<210> 29573
 <211> 282
 <212> DNA
 <213> Glycine max

<400> 29573

tatggagatg cagcggaaga tcaaggacaa gacgcgagag gagacgccat ccactagggg 60
 ataagccatg gaagactgag gttctccacc aagaatgtgt cttggataag aagcttggag 120

agaatgcttc aatggaggat aagacagatg gagagaacga gagacgggcg agcacgagat 180
tgaaggatga aaatgtggag agaagctgaa ctgtgagtag tgcttcacaa gactctcatt 240
catcagagtt accacaagtg taacacatgc gtctatttat ag 282

<210> 29574
<211> 382
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29574

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ttctgagagc ttgagatgag tttgtgagtg attgtgagat cctagagggtg aaggagacat 120
cctcaccact tgtatttttg caatctttca tcttattctt ctctatgtta gaaaggaggt 180
ttccagacta tggaaagcta aatcctctgt tggatcttcc ttataggtac ttgatgtaaa 240
tatatntcta tctatgtaat gatgttttgt gcattctctg tgctatctgc tnttcattcc 300
agtatgcctt taccttgatc acgtagatgc atgctgttgt anggtcattc aacagnghaa 360
ctgggttgat tctaagtctt ga 382

<210> 29575
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29575

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gtacactttt gggatccct tatacccttt cttcattaat attattggat cntgcccga 120
taaaaaaaca tgaatcacct tttattttaa catttcacta atacttttca tttttatcta 180
tctttctctt cttatctcat cataaatcct atcacaccta tatgttttct ttgctctttc 240
tctctctaaa tattggataa cattcgaggt gtctatcaca cattctcctc gatacaatct 300
tatacttgaa tttccttggtg acaaacacna tgattatgaa ttaaccctga tgtgatcctt 360
actangagcg gatcgcttga tacaggtcac agagnttgga tgacttcact ttca 414

<210> 29576

<211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29576

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 actttaatgt aacaaaaggt cactgcacgt tggatatgctc aagaagggat tatatttagtg 120
 taattcaata aacaatctat gccaatccaa aagcgtaaaa gccattacta ttgaacgtgg 180
 atgactagtg tgggtccacat attagggacc attttagaag cccanaaagg ctaaaatata 240
 angattgctt angtgaaaaa aacaatcggt ttctaggaaa ttgaaagtga aagtgaaaat 300
 catctggcat aggagaatta aaaaagttga aacagggacg gaagataaca aaaaatatat 360
 actagtaaatt attaggggta attactntga tatttataat tatacaaaaa tgatcttagt 420
 ttttataca 429

<210> 29577
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29577

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 gagtataaac acattagaat gttntctttg tgtgtcactc tactaagatg attatctttt 120
 tggattctgg aatagatgca acacatcttt ttttactaaa tcttggaag taacttctaa 180
 aaactttata ccttctagaa gatacttttc ataatacana aattgaaaca gtattttaga 240
 aagtactttc cacaaaatat tattttgtat ttcagagagt atattttgga ataatgggta 300
 aattttgtga ttcaggaaaag tacttttcag aatacaaaaa tntaaacatc aatccagaat 360
 gtactttcgg aatgatgaga taggggtattt taggtataat aagtattcat gataataagt 420
 agagtgtact tagacaaaag gagtggatat agc 453

<210> 29578
 <211> 455
 <212> DNA
 <213> Glycine max

[illegible]

<210>	29579
<211>	420
<212>	DNA
<213>	Glycine max

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gcgcaaaatc	tcttgaacta	ngaagatggt	gccatcatc	tttttgttct	taatgaaagc	120
agtttgagtg	tccctaataa	tagtctcaag	cactggggct	atgtgggttag	ccagaatttt	180
agatacaatc	ttgtataaca	aattacagca	agatattggt	ctaaaatggg	taacctgcga	240
ggcctgatca	tgcttaggaa	taagcgcaat	aatagcatgg	ttgagctgct	ttagaatttt	300
tccagttgta	agaattcat	taaccgctgc	agagatataa	tcaccaatga	tatctcaagc	360
cttcttgaag	aataaaacat	tgaaaccatc	tggcctagga	gcgttattgt	atccatcaca	420

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<223>      unsure at all n locations
<400>      29580
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12332

ttgaacctct gagccaattc aaacgacaat aactttgtac tcggatgtct gattgagtcc 420
cataatatat cgagacgctc gaaattgaat g 451

<210> 29583
<211> 251
<212> DNA
<213> Glycine max

<400> 29583

taacaagaga aggcacatgg ataagaagaa agcgcgagca caacacgtct cgtatgatat 60
attttaaaat gtaagaccta cataggtctt aatacaaaac cgatgggtcac agaattgaatg 120
ttaacgttaa catcgggtac ctcaagaacc aatgtactgg tatacgtaac atcgatttta 180
aaaataatgt aacgaacata tgtaacatcg gggtttcttca acccgatgtt acgaacagat 240
ataacatccg t 251

<210> 29584
<211> 360
<212> DNA
<213> Glycine max

<400> 29584

tagagaagct agagcttagc tacacatacc tctctaatag ctaagctcac ctccttgaga 60
tgagaagcta gagcttatct acacaccccc tatcatagct aagctcacgc gcatgacaaa 120
aaagacatga aaataacata agaagtgttt attacataga caactcaaaa tgcctcgaaa 180
tacatggcta aaacctata ctactagaat ggcaaaatat aaggcctaga caaattatga 240
acatattcta gtatgtacaa agataagcgg gctcatactt agcccatggg ctcgatatct 300
accctaacgc tcatgagaac cctatggcct ttgcttggat ctgtagccca atctacttgg 360

<210> 29585
<211> 435
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29585

tatatatatt tgtagaggaa tntaataaac ttatactttt cttcttgact gtccgactca 60

tcaggaacga tgaatcctga ctaatcgaac atccgattaa aaagctattg ccaactgggaa 120
 tgagactcac ataattattca gagaattcaa tcttaattggt aatatatgaa tcaatttatat 180
 ctcatcactc tcttttaata agcttatatg tgttcaagtt aaaattccca aagagtataa 240
 ttccatattc gacacttgat cagtaataat agtatcctag cctagatttt ctccattcat 300
 aagctaataa tgcgttggtg actctcgttc tactggaacg tgatgcactc acgtctgatg 360
 tggaattaac tcgaccatt gtatctatat ctttccgttg catgacgggt gaccattcac 420
 acattcaaag aatca 435

<210> 29586
 <211> 346
 <212> DNA
 <213> Glycine max

<400> 29586
 agctttgagc ttttcaaag gtcataaata gtaactcgga ggtccgattc aggcgcataat 60
 tttatcgtga cgctcgaaat tgaacaacgg aagctctcaa gaatatcatt ggtcataact 120
 ttttaactcag aggtccgatt caagcgata atatatcgag acgctcgaaa ttgaacaacg 180
 gaagctctca agaaatttaa atagtcataa cttttaactc ggagggtccga ttcaggcgca 240
 taatatatcg agacactcta aattgaacat cagacgctct agagagaatc aaatgggtcat 300
 aacttttaac tcggagggtc gcatcaagcg cataatatat cgatac 346

<210> 29587
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29587

tgtanggtta aagtctcacg aatgtcatgt gctcatgcaa caattgttag ccgtggctat 60
 acgagatatc ttgcaaaca aagtctggtt agcgataact cgctgtgct ttttcttcca 120
 tgctatatgt atcaaagtca ttgatccagt caagtttgat gagttggaaa atgaggccgc 180
 aattatactg tgccagttgg agatgtatct tcccccgct ttctttgaca tcatgattca 240
 cttgattgtg catctggtca gagaaatcaa atgttggtgt cctgtatatc tacgggtggat 300
 gtacccgggt gagcgatata tgaagatctt aatagggtat acgaagaatc tatatcgtcc 360

agaagcatct attgttgaga ggtacattgc agaagaagcc attgaatttt gttcagaata 420
 cttagagaaa gctaaacctg ttgggctatc tgagtct 457

<210> 29588
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 29588

ctctctacat atcatgcgcc gcactcggac atgcctgtga aaagatatgt tcataccaat 60
 tgctcgagag cttacgatgc ttaatttcga gcgtatcgat atattatatg cctgaccg 120
 acctcacagc gaaaagtat gaccatacca atttcacgag agcttacgtt gtgcagttcc 180
 gagcgtatct atatgagatg cgccgcactc gaacatccca gtgaaatgat atgaccatgt 240
 gaatttctca agagcttacg ttgcgcaatt tcgagcctat cgacatgtta tgcgcccga 300
 ctggacatcc cagtgaagag atatgaccat acgaatttca cgagagctta cgatgtgata 360
 ttcgagccta tcgacatatt atgc 384

<210> 29589
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29589

agcttatatc cagcaaggca caaggaacaa attaaatcaa gtcttatcaa aatcagataa 60
 ttcatgggac ttctatcaat gcaaaatgtc ttccaaaaca aaaagctgac cttttggctg 120
 actacattgc atttatgaaa gatagacagt acatatttgt tgattcatgc agggacgcga 180
 ctaccttaat cttagattgt attatccatc aagctttctc tcangatgcc attggagatg 240
 cagtatacca tataaaggaa aatactagtg cccaagacat acaccttctt gcatccatat 300
 ngaagctgat gagtgtttca ttgctgcata caattaagta tctaagcaat agtggtgatt 360
 cagatgtaga agcacataac tttgatgggt tgatgatgat aatgatgatt tga 413

<210> 29590
 <211> 444
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29590

ntataagctn tatttaagcc atatctctag tcaatgtggg actaaattac cacccttgag 60

ctgcaattaa ggcagccccc atagcaaccg caactgagct tggatagggg tgaccacaat 120

taagcttggc tttccaacaa ttaggcaatt ccctaactct tcttaccatt ttctccactc 180

tttcaccccc tttttcctcc tcttctctac acaccaacag acttttacta ctgttaggac 240

catttttatac tttctttcct ctcccatgta tcttgatcag cagcccatca gaactcaatt 300

aaattaaaat acaactcang cagaacaaaa aatctgaata ttatttggac agtgaggtct 360

ctcccaagtt tgtctatgtt tgactgctga acttatggag attaacataa atgatctggt 420

acagttgcga gggacacaca aagc 444

<210> 29591

<211> 416

<212> DNA

<213> Glycine max

<400> 29591

agcttgaagg ctaactggat gcattggtca acttggtaac ccagctggcc ttgaatcaga 60

aatctgtacc tgtcgcaagg gtttgtggtt agtgctcctc tgctgaccac catacagacc 120

tttgcccttc catgcagcaa cctggagcaa ttgagcagcc tgaagcttat gctgcaaata 180

tttacaatag acctcctcaa cctcagcagc aaaatcaacc acagcaaagc aattatgacc 240

tctccagcaa cagatacaac cctagatgga ggaatcacc taacctcaga tgggccagcc 300

ctcagcaaca acaacagcag cctgctcctt ccttccataa tgctgctggc ccaagcagac 360

catacattcc ttcaccaatc caacaacagc aacaacctca gatacagcca acagtt 416

<210> 29592

<211> 468

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29592

atgccgtgga gtttgacaca atgtcaatga acaacatatg taccatgtga gctgtatgag 60

cctgaggtat aatgccgaag tgaatcccct ttganaagcg gtcaacaacc acaaggagta 120
 caatcttgcc ctgaaaaaaaa ggaagaccaa tgacgaaatc aagggagagg tcttcccatg 180
 gtctgaatgg aactggaaga gggcacaaca agcccacaat atgtttcggt tcatatttcg 240
 tgaattgaca ttcaatacaa ttagctacaa agttggcgac atcagctcgg agacctggcc 300
 aagttaaatt ctccgacaac catgttattg tctttgtgac tccaatatga ccccccattg 360
 gagtggcatg gtattcgatc aagagagatt gaatgagtgg aagatcatgg tgtaaccata 420
 ttctgccctt ctggagaatg agattcntaa taatggtgaa gtctggat 468

<210> 29593
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 29593
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 tggtagctgc agatatgtcg ggggggacaa gagaccttgg ggacgtcaag tggggtgcta 120
 ttgccccaaa ccaagcttga ccaatcccgga cccaaccggg gcatagtcgg tcagctgaga 180
 acctgtgatg tacctaaaca agcgagctcc tggcagtcaa cagataaaaag gaacaatgac 240
 tccaaagcaa ggaggcttgt ggtggctggc cagctgagaa acttgagtga tttgtgggct 300
 gtggctctga taatcgagta ccacgggtgg gtaattgatt acacggctta agaatgaaga 360
 cagtgggcta agattgtctc tggtaatcga ttaccagcgg atgtatctaa cacc 414

<210> 29594
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29594

tcagaccana gcaactcana atctaggtat ctaaaacccc tcaatttttag tggatttcaa 60
 cgtttgagaa gtgaaaatga gaatgggact tggagcaaac tctcatctca aacaagtcta 120
 tatcatcaat ttaaactcgc tcaaactggg tntacgacga atactctacc gaatcaaaat 180
 ttgactcctc aacacccaat tttaccctag aaatggctct tgttttcact ttggtcactc 240
 atattcctca tttgcacagt ctaagctttc tcataagtcc taaatgacat ttcaaactag 300

taccctaagg ctcattgagaa ccctanggcc ttcccttgga tctctggcac aatct 475

<210> 29597
 <211> 423
 <212> DNA
 <213> Glycine max

<400> 29597

agctttgacc aaattcaaac gatgataact ttttactcgg atgtctgatt gagtcccgta 60
 atatattcgag acgctcgaaa ttgaatgttg aagctctgac caaattcaaa cgatgataac 120
 ttttactcgg gatgtctgat tgagtcccgat aatatatcga gacgctcgaa attgaatgtt 180
 gaagctctca gcaaattcaa acgataataa atttttactc ggatgtctga ttaagtcccg 240
 taatacatcg agacgctcga aattgaatgt tgaagctctc agcaaattca aacgacaata 300
 atttttttag tcagatgtct gattgagacc cgtaatatat cgagacgacg gaaattgaat 360
 tctgaagctc tgagctaatt caaacgacaa taacgctttg ctcggatgtc tgattgagtc 420
 ctg 423

<210> 29598
 <211> 493
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29598

gacgcgacac ttaataactca gcttctatat aagctgaacc attttatcaa taaacacaag 60
 ttgagtttta ttcagaaaat tagagtttat ctctttttatc ttagtgagag tgattctcct 120
 aaattcttga gtgattcaag aacaccctgg ctatatcaaa ggactttcac aacctttgtg 180
 tgttgccttc gctggaaaga gtgattcttt ccttccctatc atctccaccc ttgttctttc 240
 aaaccacaat tccagaaaat ccacctctgc ccaaaattat ctcgtgacca taacttccat 300
 ttacacact caaattaagt gattcttgag cctaaattga atttcaaaac gatacctttc 360
 acctcgttct ggaatcacct catnnggagc cctgtagctt ccgttattgc catttctata 420
 tttctgtcca gccaccactt aacctacggt ntaccatccc attcattcca tttatgccag 480
 aaaccacctt att 493

<210> 29599
 <211> 566
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29599

cctcacacca atctacctcc tcacgcttct attccganen tctgccctcc gacactatgc 60
 accccccccc cccccccacg agtgagctga tgcaatagtc atcaggccaa tccactcgta 120
 ccgtagaccc tagatcccct gccgcatgca acttagaatt taacttgcaac tccaatgcaa 180
 cgaaacatgc tatggctaca tattcacatt tgcttgtgag agcccatgct aactctgcg 240
 ctgacccatg cctgatactt cacatagaaa gaccgtggaa aacatcctcg aaatagtgtg 300
 catacatagg tcaatatcag gagcattaac tccaacaca gcgagaatga tcgactccct 360
 aagtgaacgt atgatcacgc ggaacgcat ttgaatgcat gtatgtgcat aatgcaaaaa 420
 tctagccaat atgtgcaagt gtgagagaaa caatcaacgt cggtaaggca tatatactct 480
 gagtgcgga acgcacatcg cgatacctca ctgtttagac atagctatct caaattatag 540
 cccacgcctt gaggtgacag ctctcg 566

<210> 29600
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29600

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 ccagggctga ttgagtcaga aatgtcgcaa gggaaagtcc tatccatgga atgcaagatg 120
 gtttttgatc aactaataag agatgtaagc tatctttact ttttgcacaa gacttggacg 180
 caatttttaa catatctttt gtgctgtttc ctagtcagaa ttggaacttc acttgataa 240
 ataaaagatt agtattattc attgtaatat aagccaagtt cggtccttgc ctttcattgt 300
 aaatatttgg ttctccatcg gaatcggagt ccagcctgag agggaaacgga acggaacttg 360
 gttttctcct cacatggggg cctacaggtt acacaccag ccaatacta 409

<210> 29601

<211> 534
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29601

 cacattgtcc taacttatca atctcatatt ctaatgtaat ttatatnnna annannncat 60
 cgatgagcgt gctgaccctt gcattccggc actatnaata ctcaacttgt atcataagag 120
 ccttatggga ctaaattctta tccactctaa ctatacttcc tgaacttcga tattcgatgg 180
 atatgcoctgc cagaatcagt tctggacgct taagtcgcgg atctaagggg cacttatact 240
 acctatcctt ttatgggatt cttttccttc attaagatag ttctatctga tctgacatta 300
 ttaccatata tagaagatca agaagtgcct ttgcctgaga tagactatat taaaaaactt 360
 aaccttggtc tccaatgcag tatacacgaa cagcataagc catgctaagc aatgggtgcaa 420
 agctgacatg acaagctgtg acaatgccta ctgcacaccg ggggaaagtc agtctagtga 480
 atcacttgct ttcatactgg ctcatattat atgagatgac cgctcgcac gaag 534

<210> 29602
 <211> 341
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29602

 agcttcacga ttttcctagc aatttagttt cagacagggg tcccattttt gtacgacttt 60
 tttggcgcaa attgttcacc atgtgtggca taaagctatg tatgagcact tcacatcacc 120
 cagaaatgaa ccagcaaacc aaagttctga accatacttt agagcaatat ctcaaagct 180
 tggtcagtga cacaccaact cgctggttca actatctctc actggcagaa tggcggtata 240
 atacatccat tcattctgct acaagaatta ctncctttga agcaacttac ggcaaggctc 300
 cttcttctat tctcgggtact tgatgggatc gtccagcgta t 341

<210> 29603
 <211> 455
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29603

aacgtacgtt ggggcacttt gctacccta gacgttgat ctaagaagg gacaaattcc 180
 ccgggcccc gcattcctag attgcatttg tgtcatatgc attccatcat gcattcatcc 240
 atcccacca tgagatatcg gagttttgat ttgcaccagt ttttgtctca ctttagtaag 300
 catgggaaca aatcaaaccg gcaagagggt ctaccaagtc aagggttaaaa gcttagatac 360
 caccagcatc aaggaattag ggcggttgat gaaacctctc caaatgcaag ccttccgcaa 420
 gacttacgga aagatcttag agttgacat agca 454

<210> 29606
 <211> 407
 <212> DNA
 <213> Glycine max

<400> 29606

agcttctgtt ttcaattttg agcgtctaga tatattacgg gtatcaatcg gacatccgag 60
 caaaaagtta ttgtcatttg aatttttgtt attcattttt tagcatcaag aattattaaa 120
 tgactcaatc ggacatccga gtaaaaagtt attgtcgttt gaatttgctg acagcttttg 180
 tattcaattt cgagagtctc gaattattaa atgactcaat cggacatccg agtaaaaaga 240
 tattgtcatt tgaattttct tagagctttt gatttcaatt tgcagcatct agaattatta 300
 aaggactcaa tcggacatcc gagtaaatag ttatggatcat ttgaatttgc ttagagttac 360
 tgggtctaat ttcgtgcgtc tcgatatact ataggactca atcggac 407

<210> 29607
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29607

tgtagcanat gcaaaccaca ataactntta gctcggatat ccgattgagt cccgtaatat 60
 atcaagacgc tcgaaattga atacagaagc tcttagcaaa ttaaaacgac aataactttc 120
 tactcggatg tctgattggg tcacgtaatg tatcgagtca ctcgaaactg aatacagaag 180
 ctgagagaaa attcaaacga caatgacttt taactcggat atcccattga gtcccgaat 240
 atatcgagac gttcgaaatt gaatgtagaa gctgtgagaa aattgtaacg ataataactt 300
 tttactcgga tgttcgattg aatcccgtaa tatatcaaga cgcttaaaat tgaacacaga 360

agctcgtagc anactcaagc gacaataact nntaactagg atgagtcctg taatatatcg 420
 agatgctcga aacttataac ggaagttcgt agcatattca 460

<210> 29608
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 29608

agcttggtcgg ttcggagttt tccgactatg ctcttggtgtg gtggaacaag ctacaaaagg 60
 agagagcatg aaatgaagag ccaatgggtg atacatggac ggagatgaaa aagatcatga 120
 ggaagcggta tgtgccggct agttactcaa gggacttgaa attcaagctc caaaaactaa 180
 cccaaggcaa caaggggggtt gaggagtatt tcaaggaaat ggatgtgctc atgattcaag 240
 caaatattga agaagatgag gaggttaacta tggctcgatt tcttaatggt ttgactaatg 300
 atatccgtga tattgctgag ctgcacgaag ttgttgatat ggatgatttg cttcaciaag 360
 caatccaagt ggagc 375

<210> 29609
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29609

ntgcggatnt ggtcttcgcc agtgaaagga tcgaagtgga tctgataaga ggcaaactta 60
 atcatcctgc ttagacgaat gagaaaaactg nggcaaataa agaggggtgag gatgagggag 120
 aaacccatga tgtgactgcc attcctatac ggccaagttt cccaccaaac ccaacaatgt 180
 cattactcag tcaataacaa accacctcct taccacccac ccagttatcc acaaaggcca 240
 tccctaaatc aaccacaaag cctgtctacc gcacttccaa tgacgaagac caccttttagc 300
 acataccata ataaacacca accaagatat gaattntgca gcgaatagcc tgtatgattc 360
 accccaaatt ccggtgtcat atgctaactt gctcncatat ctacttgata acgcaatggt 420
 agccataacc cct 433

<210> 29610

<211> 352
 <212> DNA
 <213> Glycine max

<400> 29610

agcttccaaa ttagtgtacc aactaccgc agtccggcc aagctatcct gaaagaagtg 60
 tatcaacagc ttttcatctt tagaatgagc gcccatctta cggcagtaca tottgagatg 120
 ggttttggga caagtcgtcc ctttatactt gtcgaagtcc ggcactttga atttcggggg 180
 aataacaaca tcgggtacta aacaaagatc cgtcatgtct gcaaacggat agtcccaaaa 240
 tccttccaca gccctcaatc tttcctcaag gagatcgagc ttccttcttt cttcaattgc 300
 cgggggcggc ccttccatag acaaaactat aggcgatgct gcgatgttgg gt 352

<210> 29611
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29611

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 cgaagaatga tgaagaacat ccacagaatt gatcacaaaa acatcatgga agcgttacag 120
 aagcgtctcg gcttggaattt attccttctt tcttcttttc ctactaatt ttaagtgaaa 180
 actgaatatc caatgtgctg aacccttcc cctcagtcctt aaaagtcatt ntatagcaaa 240
 aatgagggag atgggtgccc cccagcctgc ccaggcgagc tatgtagctt ccacctgaag 300
 caacctccct ctagaatgtt ccagatgggc ccaggactag atacaccnc cctgaatgga 360
 tcagttcacc cnccattttg tgttttggct gatttccttc gaacatcgtg aaatgtacga 420
 atacacgttg atagt 435

<210> 29612
 <211> 429
 <212> DNA
 <213> Glycine max

<400> 29612

agctttgcc aatggagata gatgtccaaa aaatgaaaa ataaaaata aaaaatcaac 60
 tccctcttgt tgtgtgtaac ccttggccac aagcctagct ttgttaacttt ggatggcgcc 120

attaacacaa tgtttgatgt gataaaccca cctataacca attgaaactt agcttgggga 180
 aaatcagtta gatacgaagt atgatttgct tcaagagtat gtaattcatc cttcatagct 240
 tttcttaata cagtttcata cttaacagct tatgcatatg ttttgggttc agaaattttt 300
 gaaatggcta aggtatatat ttgagatgac taggagacaa atgatgatag gacagaacag 360
 tggataagga atataaagca gtacctgaag tagaagacag gaacctgctg agttagaaga 420
 ttgcatgta 429

<210> 29613
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29613

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 ttttttttct caaataaaaa aattaaaaac ttatngtatt ctttttattt ctcttttccc 120
 atctatctct ttcttattgc tcattggctt ctgttctttt cttcctgtca aatactataa 180
 ctaccacatt gaaccactnt ntacactaaa gcttctgttt agtctcctca catacaaagt 240
 ttttttttgt cttctctctc agatatattt gtctctaate ttatcttttt cttatatgcg 300
 aactcatcag ctntaacatt cttatcttat ctacacactt gaggttatat ttatagtaat 360
 taatacaact tatattntat ctttgattag cctgtgct 397

<210> 29614
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 29614

agcttacagg aattttttcca agaaaagtag gacaaacaaa atcatgagat taattcaaag 60
 ttgtagaaac aagacttgct cattatttaa ttcttttaca cttccgagca tacaacacta 120
 accttggtgtg tatTTgataa gctacacaaa tgttgcttaa acatgtcact gtcttcttca 180
 gatggtagac ttcccaaatt gccttcagta gttgtttctg acacacttcc agattcactt 240
 aaatacaact gctctgcttt actctcagaa acttcttcag aacaccaaga aacatcatta 300

ttgttacagc cagcatgttc tggagcaaca cccctctttt cattcttgct aaggttatta 360
cgcccaaagg agttctggtc ctcacaaatc acagccttat gttgtcctac aataagccat 420

<210> 29615
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29615

gaatgacata ctcttggttg acatcaactt gtgttcaaaa ttattagttt taaggactga 60
caatggcctg cagtcgttca aagcagttca atgagttctg caagaaaata ggcacaaaa 120
ggcacataat agtccctcac acaccacaac aaaatggttt ggcagaaaga atgaataaga 180
ccattttgga aagagtggag tgcataactt ctaatgcatg actgccaag accttctggg 240
gagatactgc tacaccacag catatttgat aatagatgtc catcatcagc cttatgtttc 300
aagacactaa tggaagcttg gagcggtgaa ccacctgatt attcatgatt aaaggcgttc 360
tgatcactgg ctttcgtca tgttaaaca cgaatgctgg atgcaagggtg tataaagtga 420
gtgttca 427

<210> 29616
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29616

agctntatgt atattctttg taaagttcag aagctttcaa aataccttgt acatcttaga 60
gaaaaaacta agagcttaga ttgtatatcc tcctatgaga cgtttaagaa gtactcaatg 120
agccaaccaa acaacaaatc ttttgattat tttagagcta gtagtgactt actaggacaa 180
aagatattga gttgggtaag tttgcgttgc atgagccaag agtgatagtg aaaaatactt 240
gtaattagtg aaatttggtg gtttatcaag aactggacgt aatctcagtg gtaaagacga 300
accgatataa aacttcatgt gtctgatata tatctctttg tgcttatcta gtctt 355

<210> 29617
<211> 475
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29617

actcagcttg tatacaactc anaataatga acgattttca agcaaatcaa gcatacacaa 60
tttttggtgt tgttctggac gtgtattttg atgttaatct ttatcacctt ttcttgc tca 120
tttattcttt gtttttggtt cattatttat ccattgtttt catccagatg tatatttaaat 180
ccagttaaaa ttfcagctca aaacttaag tattcaaacc atgggtggagt taagaagaaa 240
gtgtgccaaa attgacagca accaaaattt caacctagaa ataaagagta gtgtttatat 300
tgtttaaggc ttagatagtt acaatttggt gttgattaag atcaattgtc ttgaataaaa 360
caaatcgata gagcttaaga cttattttga ttcacaaatc caggcacaac tcaatttctt 420
cataggcatc atataggana cttanaaaac aaaaaagttc aaaaaaacta cttct 475

<210> 29618

<211> 417

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29618

agctttcttat ccaaggctca tcttggtggt gaagctcctt cttccatggc ttattcccta 60
gtggatgacg cctcctctca cctcttctcc tttgtcttcc actgcatctc catggtggaa 120
aatcaccatt aaaggacctc attgaagctc anaccaccaa aagtgagtgt tttgttgga 180
accttgaatg tggatcatcca aacactctta ggattcgctt agtttacatt tcttgcttac 240
tttcatagct tatttccttt atcttccatt gtcaaaccgc ctagatagct ttccttttaa 300
ccaattagtt ttttccctta tctntcagac ctcttttagt gtttattttg gctagtttca 360
accatagtta cttttacctt ntgttttcaa acctccaata agaaagaacc acaactt 417

<210> 29619

<211> 463

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29619

ttnttgaaag acaaatctct tcaaaccatt ntaaaaaggc acaaatggca atttgaaaag 60

gcatgaaggg tctatatata tgtgtgtcta actttgaaaa gcaagaaaga gatattctaa 120
 gagaacttca ttgccaaatg ttctctcaac aactcttggg caaacactta caaatctatt 180
 gagagttcat ccaggaatth caatttgtat catccactct aaaggagaga aatctttttg 240
 tttatctcan aagtcagttg taatcaagag actggttgtc tcttgaattg tgagtatcct 300
 gaacacaaga gaaagggatt cctcggtgtg tcagaagttg taaaaaggat ttttacaag 360
 ttagtgaaaa tctcaagtgg gttgcttgag gattagatgt angcacagga agtggctgaa 420
 ccagtataaa tcgagtntgc atttctctct tcttcatct cat 463

<210> 29620
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 29620

agttccaca acatccaaga gaaacaacat tcaaacagca caagctatca cagccaagca 60
 aaacagagta aaggcagaaa actctgctca acacatcaac caaaatcaca gcttttctca 120
 cttaaagacc acagtaacaa ttccttcgat ccaattcggt aaccggttga tcgactccaa 180
 aattttactg gaagtctata gtgcataagc ctacattgta accggttgga tctactagaa 240
 aacatccaga actcattctg tactactctt tccacagcca accacacaca agcattttct 300
 gcaccaagct aaaatcctgc tgcacctatt atgacagcaa aattctgcat aagtgcagat 360
 ttogaacatc acacttccc tcatccaatc ttgctcagat cagatcctac aagtcccaaa 420
 tc 422

<210> 29621
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29621

attaatgtgt tgtaccgatt gaaaaggcca tatatttgag ctattcaaaa ttagttcgtc 60
 atggatgaga actggaaagt aactaccaag gaataaggat ataggagggg gccataaaga 120
 gagaagtgag agtgagacgc cataaagtgt gtaaaattht tatatagtca gtatatgttt 180

gataataagt tctttgaaag ttctactaac aagaatccag aaataaatta tttttggtta 240
 ttaacaaagt ataaacaaca attattcagg tcaagacaat taaaatatct gcaagagcag 300
 catatacctc aactctaagt atcagacacg atcacatact tatectatta catggaccgt 360
 gtaattctgg aatcttcttt ttagatntta ccgttattat tttgctctca ttagctgtgc 420
 attgttcttg cacat 435

<210> 29622
 <211> 368
 <212> DNA
 <213> Glycine max

<400> 29622

agctttgtgt tttttgttat aatagagtga atctttggtt gattcatttt atgtatggag 60
 tatatcaatt gacttttagga ctgatctgtg ctctttgcac ttttccccctt tttttaacgt 120
 tcttgaataa aatttggtt cttaataatt tggacaacat aagtgttaat agatttataa 180
 acttaaacta atgtgatgtt agaaatcaat taagaaccac atactaggat gggcattaga 240
 cacctaacga cccattctga gaattaatgg atgcttgggg gttattagag accctaaact 300
 cacgaaatta tgcgacaaca cgaattttgt tatgtcataa actaagtgtg caagtgtgta 360
 gttttcac 368

<210> 29623
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29623

tccatggcat gaggtctggc tcccgtctctg ctcttgcccg cgatgccttc tccctttctt 60
 tatccacatg ctctctctcc ctcaatgaat taaggcaacc cctctccctt ccttcatcca 120
 agatgcttgt cgagctctcc aagtcccagg actcccctgc cggcgacagc accaccaccg 180
 tcatcgatcat catcggcgcc ctctcaagc agtgccctnca ccttctctcc cagcagatcc 240
 accccacat cgtcactgac gccctccaca aggctgccat caaggctgtc gatgttctca 300
 ttgccatggc tgtcctctgc aagctctcca accgtgactc cctcgtgaag tccactcana 360
 tntaatggat aggggtaata tgaatangta acccaattga aataagaaac tacccaatta 420

natccaatga actactacna atatgcatca acat

454

<210> 29624
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29624

agctnttttc agtcgtctgt aaggatgatt ggggtgtaga aagtggatgat gcctactgta 60
cacagttttt ctcccatggt taagttgttt gtaacttgta ttttcttcac agatggggca 120
tgcattgatga cccttaacac tgtaaccgct gagattccca tatgctggaa agtcattaat 180
ggtagaaaaa agcattgcac gcatttcaaa ggtctccttg cgaaacgcat canacactac 240
aaccctcttg tcccacaact ttctcagatc ttcaaccaac ggacttagat aaacatcaat 300
gtcatttctt ggctgtcttg ggcccgatat catcatattc agcgtcatgt gttttcgctt 360
catgcac 367

<210> 29625
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29625

nttaatggaa gtcaagagca cgatattgcy cccataccgt tgactggatga gcaggtatat 60
cagcgggttc aacacctgaa tactgtattt ggaaagacc aaagaagga taaaagtaag 120
agttgcatat ggaaaaagag gtccattttt ttgatcttc tgtactagtc tgatctagat 180
gttagacatt gtattgatgt tatgcatgac gagaaaaatg tatgtgacag tgtgattggc 240
acgctcctta acattcaagg caagatgaag gatggcttga ataccgtca agatctagct 300
aatacaggga tacaatcata gttgcatcca aggtctgatg ggaagaaaat ttacttgccc 360
ccagcttgcc atactttgtc caaaaaggag aagatccgt tttgtcagtt tcttcgctcg 420
gtgaagggtc cacaaggata ctcttc 446

<210> 29626
<211> 421

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29626

agcttatcca aattctgttn tagatattcg tgaattacaa cctgncaatg tgaaagtttt 60
 tattcaatgg caaaacctcc ctccaagtga aaataattgg gaatctgtgg ctaaattaca 120
 agagggttttt ccgacttatc accttgagga caagggtgagt cttttaggaa ggggtattga 180
 tatgcataag cataagccac acatcaccaa ggtgtacact cgcaaacaac gagcaaaaga 240
 agcaataacc atggaccacc agcagcaagg cgcacaacac ccaaggggtg caaaccaccc 300
 aatagttaca acccatccaa aggggtgtaaa ccacctaata gttacgattc acccaaagaa 360
 tgcaatgtca gaagatgcga atcaagggga catgaccctt gngaacagtc acaatcaacc 420
 g 421

<210> 29627
 <211> 461
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29627

tcaggttgct cattgactcc agattgatgc ataanaggac aaagatctgt atgggtgatct 60
 acagaagaac atagaccaca gactctttca acagggtgtag attttttatt catggcaagc 120
 tgagttacta ggttgaccaaa ggcatacaagt tttccctcaa gctttttact aggttgacca 180
 agccatcaac ttttccctca agctttttat tttcacttga atttgaaatt gaattttgga 240
 gacaaatttt cactaattat gattagtga ttttagctat gggtcagccc accaatccaa 300
 gatcaattcc aagattctcc actaagtgtg cttaggtgtc atgaggcatg taaagcatga 360
 aggacatgca caaagtgtga ctatatgatg tggcaatggn gtgtagcaag caaatgatca 420
 cctccccctc taatanttta atggattgggt cttctcccaa t 461

<210> 29628
 <211> 380
 <212> DNA
 <213> Glycine max
 <400> 29628

agcccgggtc cccatcaacc ccaccaagct ttcacaatat ccaaacaatt caattccatt 360
 tgtcatgaaa ctaccttaaa caaagaataa cagagtggag gcagaaatct ttgcacaaga 420
 ttcattcaaa ttccatagaa gttttcttac cctcata 457

<210> 29631
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 29631

agcttctact ataatgtaaa ggtgaaatta tgtataagtt ggggtgtcata agttgaacta 60
 aatacattga tctaaacata agtgaaaagc ttaaggctct atctagctaa aaaaagacag 120
 acaaaataat gaactcggtc cattaactaa aattcaatta cgagataaag catagatacg 180
 aaagattatt acatagatta tgtacttggc taaacttaaa ggagtgttgt tcgccggcga 240
 gctggagggt gccgctgacg aagacgatca tggcggagtt gacagcggac ggctgggaat 300
 cgacggtggt gatggagtgc tggcactgtt 330

<210> 29632
 <211> 511
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29632

gtgaagcttt gttgaacctt gnattgatcc ctgcatacgg accttaagtc tcagcttact 60
 cttatgcctt gttgcactcg actgtaacac ggtaacttaa gcatatgcgc ctaaccacct 120
 atgaattgcc gaatctccac tcaaacagaa tgagactaat actctcacat aggtcaatat 180
 aggggtccatt aatatgtgat gatgtgaaat gagatgaaca tgtgtaagtg tgatagccat 240
 gatgatttga cgcgcgagaa ggatgtacta taacaatgat cgtgtaacat gacatgcaat 300
 ttcatgagat ataaatgatg gcgatgatca gactagtaat gaatctaatt aaagtataca 360
 aagaattatg gaatacaatg tgacagagta agaaaattcc ttcgacgtga gtttgactag 420
 attatatgcg taataaactt gtactctatt agcactctct agtattagat taacatagct 480
 atagctactc tacatttata actattcatt t 511

<210> 29633
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29633

agctntcatt gttcaatttc gagcatctgg atatattatg cgctgaatc ggaccttcga 60
 gttgaaagtt atgaccatnt gaatttcacg agagcttccg tggttcaatt ttcagcgtat 120
 cgatatatta tgcacctgaa tcggacctcc gagtgaaaag ttatgaccat ttgaatttct 180
 cgagagcttt cgttggttcaa tatcgagcgt ctcgatatag tatgcgccgg aatcggaact 240
 ctgagtmana agtaatgacc atttgatttg ctcaaaagct ttcattgttc aatttcgagc 300
 gtcttgatat attacgcgcc tgaatcggac ctctagttg aaagatatga ccatttgaat 360
 ttctcgagaa gcttcgttgg tcaatatcga gcgtctcgat ata 403

<210> 29634
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29634

tctaaactnt gtacaagaat gaagctctga taccatttgt tagacaagtg gcctcagata 60
 tcttaagaag ggggggggtt aattaagata ttcgaaactn tntcttctaa ttaaaaatct 120
 atcttacttt gtacttaagt tatgaattcc cttaaagaca atcttcttaa atattaattc 180
 aatgaagca acttgaatat gaatataaag caataataaa taaaggagat taagggaaga 240
 gaaaatgcaa actcagtttt atactgggtc ggccacaccc ttgtgcctac gtccagtcct 300
 caagcaaccc gcttgagagt tccactaact tgtaaattcc ttttacaagt tctaaacaca 360
 caaggacaac ccttcctttg tgtttagaga ttctttacaa caagagactc acagtctctt 420
 aatcccttag agaatgagaa gaa 443

<210> 29635
 <211> 226
 <212> DNA
 <213> Glycine max

<400> 29635

gcttgccttt tgagaattat gaacacacac acacagataa ttttctagaa ttccaaagca 60
 acgacaccac agcgcatatt tcgagataca ggctctggag gcagcaagag gaggacctct 120
 gcagagaacc ctatggtact atacatagag agagattagt gagctgcaca gtgatagtga 180
 gaagctgaga atatgaggag ggatccccct tcttatgtaa tgaaca 226

<210> 29636
 <211> 306
 <212> DNA
 <213> Glycine max

<400> 29636

acagactcgc agcagctgaa tcattcctct atagcatcct taaagctgct ccctcagctt 60
 taagcgcttg aatgccatgc tatacaggct gaactatgac tcacagattc aagaaatcaa 120
 tgaatctctg ctgaccattg aactgtgagt gaacgagctt aaaagcaaatt gacctcttgt 180
 gaagcttcta gaagcaatgc ttaatgcagg aaatcgaatg aatgcacgaa ctgcaagagg 240
 caaagctcaa gcttttttca atgtggcttc tctaaggaag ctctctgatg tcaagaccac 300
 caacgg 306

<210> 29637
 <211> 434
 <212> DNA
 <213> Glycine max

<400> 29637

taatcattcc agtccactca aggcataatca tatgagcact tcaagttcac tccacagaac 60
 atctacatgt catgaactac aatccacacg cacgtcgaat catctatcaa tccgatgcag 120
 tttcacgtgc tgcaaacatt gcttttagta tcagcgatca acacttaaac aacagaaatt 180
 taaatgactg aaatctaagg actaacaagg cagaaactag ataattgaca agaactatat 240
 aactgataaa ctgattgtt catgatttgc aaaatttctca ttactatgca gaattgagaa 300
 ctactgatca tctgtagct gatcgataga atgctcgttc agatctatca ctgaagaagc 360
 tggaggagac tgtgaactag actactctta cttcaatgct agcgcatatg gcaacggtat 420
 tctatatatc ccgg 434

<210> 29638
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29638

agcttgtagc atattcgaac gacaataaca ttctactcgg aagtcggatt gagtcccgta 60
 atatatcgag acgctcgaac ttacaaccg aagctcgtag caaatatgaa cgacaatgac 120
 atttactcgc gaagtcctat tgagtcctgt aatatatcga gacgctcgaa atttanaatc 180
 gaagctcgta gaatatcga acaacaataa cttttcactc agaagtcgga ttgagtcgga 240
 taatatatcg agacactcaa taattanaac ccaagctctc agatacttct aacgacaata 300
 actnttact cggaagtnct attgagtcgc gtaatatatc gagacgctcg aaatgtanaa 360
 ccgaagcccg tagcacattc gaacgacaat aacattccac tcggaagtct gattgagtc 420
 c 421

<210> 29639
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29639

cttcgggtta anattcgagc gtctcgatat attacgggac tcaaccggac ttccgaacga 60
 aatgttattg tcgttataat ttgcagagag cttcgggttt aaatttcgag cgtctcgata 120
 tattacggga ctcaatcgga cttccgaggg aaaagttatt gtcgtagaa ttatctgaga 180
 gcttggtttt taaattttga gtgtctcgat atattacggg actcaatagg acttccgagt 240
 gaaatgttat tgcggttcga atntgctacg agcttcggtt taaaaatccg agcgtcacga 300
 tatattacgg gactcaatca gacttccgag tgaaatgtta ttgctgttcg aatntgctac 360
 gagcttcggg tttaaataatc gagcgtctcg atatattacg ggactcaatc ggacttccga 420
 gtgaaatgtt attgctgttc gaat 444

<210> 29640
 <211> 595
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 29640

cggatcgtagc ttctacaca atcgactggc tatagtcaaa atgggatagt atctaactta 60
ataanntnnn nnnnnnaagt cttgagaccc atggttggac accactcgat anaacagcga 120
cacntaaaga catgcgccgg gcctcaatct gactgagatt agataagttc ttacgatctt 180
actgacagca gaccgttctc tgttcatagc gatgcttcac gagatgcaac gcacctgaac 240
cggactgcca ctagagaaga cagcaccatt tgaacgagag gagagcttgc gtaagctaga 300
gcggagcgag ttactatacg acgcgccga acacgacttt gatgtgcaa gacatgacta 360
atcgaactac acgagagcgc gcacagttca aagcagagcg acacagtata cgatgcactg 420
gcattggagt gccatacgac acggccagac caactgagct gctcgatgag cttgcgcgac 480
gcgtcgagc ttagaatata ggactcaccg gacgagccg atcgaaccat gtgctaatac 540
acatgcggca aacacgaccg ggggttgaa atcacgaaca taccgtacat cggct 595

<210> 29641
<211> 309
<212> DNA
<213> Glycine max

<400> 29641

atcttcaaca ttcaatttcg tgcgtctcga tatgttacgg gactcaatca cacatccgag 60
taaaaagtta tggccgtaag tatcggtcga gagcttctac tatcaatttc tagcgtctcg 120
atctgttacg ggactcaatc atacatccga gtaaaaagtt atggtcgttt gcattggctg 180
agagcttcaa ctttcaatat caagcgtctc gatatgttac gggactcaat cagacatccg 240
agtaacaagt atggccgttc gtattggctc acagcttcaa ctttcaattt caagcgtctc 300
gatatgtta 309

<210> 29642
<211> 199
<212> DNA
<213> Glycine max

<400> 29642

tgacatctca actaacatat caaactgtac aagactatta tagtatgctg tttgaatacc 60

tcacccactc aagtgtatca cacaattatt gctctttctc taatgaaaca ctcttgccctt 120
 taaccactct aattcccctg agttcttacg caattcaaga gattatggcc acaacaaaga 180
 acaattcacc aatatgtgt 199

<210> 29643
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29643

tgttntgagt atcatgtgat cctttggcat catcaaaaca tcagcttaat cctttgtcta 60
 caatctctcc ctttttgatg atgacaagcc ctgaaatcaa cacaaactat attcaacatg 120
 atagcccgtt cacacaaccc ttactcgcgc tatcttgtgc catgtatgcc taatgataaa 180
 cttctaatacg atttctaacc caagtcccaa gtgctctcaa gatctctccc cctttggcaa 240
 catcaacaag aactaagcag cacaatcaaa attcaaacag atcaaacaat aaaccataat 300
 acatccagac attgtcataa ccataccaat cagagtcaag aaacataata tacctgcaag 360
 attaccatat ctaagccata ataagcccaa ta 392

<210> 29644
 <211> 59
 <212> DNA
 <213> Glycine max

<400> 29644

cgacccggag acctatacat cggacactgc acgcatgcaa gtttgtgcat tcagtatcc 59

<210> 29645
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 29645

tgggacaatg atttctgtcc acaagttagt catatacagc gactttcaaa ctcccctata 60
 tttaacatta tgcttgcct caagcaaaga aagaacagtt cacttgcct cacttgacaa 120
 agacagaggc cattcaaaag ataatggagg ttgattcatc aaggacatca accatatgaa 180
 ctgaatatca tggaatgctt aaatcaacca ctactcacia acatgcagca ttccaaatat 240

aggagcacac gtattatagt cacagctgaa ataagctagt aagcatgata gaaatcaatg 300
aaggatcatc atccaaaatc tcacagtcac tgtttcactc aaactcaagt gttgaagctt 360
attccatcat aaacaaccaa cacaagttac aacctttgca tttaatcttc tatcatacaa 420
ctatgaacac a 431

<210> 29646
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29646

tagcttactg ntgctgcccc accaagcacc acaaaatatg ttcttaccat gctettgcat 60
gcgagccctc caggcttttcg tgaatagaat ctgcgagaat ctccattgga tgattgtacc 120
cgagcatact ctatcagaat aacggtaacc agcaacgtga attacgcttt aggcagaggt 180
cataactcta gagcgagtac tatagctacg acttgtggct cctcgtatgg aacttaaaag 240
ctaggatcgt cgataatctt taaataggag agcacctcta ctctcatag acgatcgttc 300
catcattctt gagaactgcc aatgaggcca ttaagaatgc ccctaagtta tatactttca 360
ctgcgcgact caccgccct tgaggaatct tggctgacca tcaacg 406

<210> 29647
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29647

cgcccagctc tctcatgcga gcanggttgc tacctccata ttcacagcc ttatggaagg 60
cccaacaggg ccatatagat atctacacac cctgcatac tacatgcacc accttcctat 120
cttttatctg aatacttatt ccgtaacggt acgaaactct atgaatatcg tcccgatacc 180
tatttttctt acgcaaggat acgaattctt actgatgatg tatccactct aacttagctc 240
tagaacaagt tacggaaact catggatcgc gcacaaacat atattattca attcccggca 300
cattagggaa tttcacgaat cactcacgct tgcttacatt tagattctaa gacagcacgc 360
gacttcattt attgcacgct actcaacaaa taatcaccgg acgaaattag cgtatgacat 420

ccaccaccac catgtgcatt accacct

447

<210> 29648
<211> 425
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29648

agctttataa tcgcggttct gggagacgaa ggtcaagtgg tcgcgatata cgaagatgat 60
gttccgagta cattggattt ggtacgacca tgccttcttg atttccaact gggaaattgg 120
cgagtggagg aacgccccgg catttacgca acgagcataa tgtaaaccctt tacggtttta 180
aaagctctat agttaggcct aggctttaga gtttttcctt ttgttaagga tttgtgtctt 240
ttgttttgaa ttataatac aaggatcttt cttcatctgt tctacgtct ctacccattc 300
tcattcattt gctgttttac ttcttntct gataatggca gatccgatga cgagtcccc 360
gaaggtacta atacctgca cccgcctatc gacttcgagc aagatattag tcatacgga 420
gatca 425

<210> 29649
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29649

gacttgagtc atcaagagat tatanatatg tgaccatggc atgagtttca tanaaaatca 60
ataatcaata atctatcttt caatcttctc tcaacatcat tcaatatctt tcaactctgt 120
ctaccaaatt ttatgattct ttntctcttc atcttttcta aaagtcttgt tcaatacttt 180
ctctttcaag aaaagttctt tgatcaaaaa cttgtgcttt tcatcttttt cattctcttc 240
tccctttgcc aaaagaacga aggactnaac cgctgaatt cttgtgtct ctcttctccc 300
ttacaaaaga ttcanaggac taaccgcctg agaattcttt tgattcttcc ctctccctta 360
nacaaaagat ctcaaaggaa ataaccgttg agatatcttt tgtttcccca tacatagatt 420
canaggacta accgcctgag aattctttgt cccaacacat tg 462

<210> 29650
 <211> 588
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29650

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 acnnnnnnnt cgcgtagacc gttgttgaca cctgctatt acgtgaacta tanaatactc 120
 aagcttctgc tgcagagaat catagcctct acgactatta acgaggagga ttgtgttact 180
 gctactggat ggcctgagcc ttcttgctca catcatgaga aaactaaccg acaatgatag 240
 acatgggtat attgacgtat cacagcatga tgattaatat tagatataac tcatatggta 300
 atgatcatac ctactaaca tggtctctac gattctgtcc taaacggact cactttacct 360
 tgctgatgcc gtatcactca tagacagcgt cctccacact gttgtgatca gctggaatga 420
 ctcatTTTTCT cgtgagggtt gattaatact tcgtgcatat ctgcaacaca accatgcagt 480
 agctggctta gcatactact atcggtagcc tctcagatgt caaatactgc ctgacatcat 540
 cagatacggg ttattaggat aataatgatt atctggtagt ggtgacag 588

<210> 29651
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29651

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 acttttcatc acagttgaag aaaagggtcac gttcccgccg catagccaac tcttccaatg 120
 acaagctctn gatcaggaga ggtggagaaa gttgcaacgg aggtgacaac aaaagtgaag 180
 gggataaagg caccactagc aatggaactt ctctcttga agacacgtta atcctacggc 240
 ttgaaccaa gtcagagggt gcaagggttg aacctcgcan agaattctca gagtcaagcc 300
 cgagataaag caacttanag gaatgggtgg ggaaggccaa tgggtgaggct ggcaagggtc 360
 tcaaacttga agaggtaagc attgatggta ctacact 397

<210> 29652
 <211> 468

<212> DNA
<213> Glycine max

<400> 29652

gcttggttg cttccacgag tgagagaaga tataaggaag aacaaacttc tgcattttgc 60
tttatatcaa actctgaaaa aggctttgta caaacctgct gcattcttta agggcatact 120
gttttacta tgcgaggtat ttgcttggt tctatgtag tttttgacat tccaaattaa 180
taattggtgg atattttctt aggttctatt tgtggcatta tattaattct tcaattatgg 240
tatattttgc tctttcatat aataatattt caccatctt ttacggtgag ctgcatctga 300
tgtttcttta ttataattgc tggaatatag aggggggaaa ttaactatga accgtgtttt 360
gcaaaatgga aaatatggaa taacatgtat atggaatggt aaatgaacat gagacagtga 420
ccagttatgt ttatgacaca ttgtgaatga attgtttgtc gtcatggg 468

<210> 29653
<211> 363
<212> DNA
<213> Glycine max

<400> 29653

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cccctccttc cgttatcaat gttatatatt gaggaccagt gtcaccaacg actaactacc 180
ttttttttgc ctagattatc tacatcgccc ataaacttat cagacaacat cacttgata 240
tgtcaaagac catagattct aagacacact tgtttccgtt atgactcccg tgacggacca 300
tactctgatg ctcttccac tactgatgca tagatccaga ccccaaata gatagcatct 360
acg 363

<210> 29654
<211> 560
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29654

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tatannnnnn naagagtgat acctggtttg acccattgaa aacctcaact agnnacaatg 120
 tgccnaccta acagaagcga tcttatagac agtttcagtc atgatgttgt gccatcaagc 180
 cttggcggca gctaaagaag gcccgtaatt gctatgttgc gacaggtgtt cattctggaa 240
 taaagcaaag cacgctctta tgtggacaga ggcgattcca acgtgactct tgctgaagat 300
 gcgtgacgtg tcaagtgtgc gatcatctct agacggaaaa cggccctgaa tggcgtcact 360
 gagaagggtgc ggagagttag ctgtacatat ggatggcaga gctattttga aagggtattga 420
 tgcacacaac agacgtcngg cactgctgtc atacaggcca ataatgggtg ggtacagata 480
 cactgaaaga agtagccaca aatgatctgc gaggacatgg taacatcgtg cgaggcagaa 540
 ccgatgaatt cttgagcacg 560

<210> 29655
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 29655
 aaggctaagt tttcatgttg ctctcctat ctctaacaat attttcatgg cacaaaacat 60
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 atatatatat atatatatat atatattaaa gtgagttata ttattttcaa ttaaaagggg 180
 ggtctacaac aattaaatta aaattgtatc aaaagaaatt actactaagc aattaaaatc 240
 gcacaaaact ttcttttagtg tattattgta ttaagtatat tattatagtg tgtctataac 300
 atgttgatca acatcgcggg aggatacaag atatatacaa taatgtgtat aatacaagca 360
 cgcgaagaga atattatttc gagtacaatt cacgttctat aatagagcgc actatatgcg 420

<210> 29656
 <211> 452
 <212> DNA
 <213> Glycine max

<400> 29656
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 aacattaatt ccccgacaat caagtatgca ctaagagaac aactagaaat gcattgcttc 120
 aaaatttcat caccattcaa caaaataatg ttaaccttaa cacatgaatc taccatataa 180

[illegible]

ctagagtgcac ttgttcactt attgttggtt gtcatagaag tcatgtctag tcat 414

<210> 29659
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29659

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aatganagaa actgttcagg ttctcgaana agaattctca aggacaataa atattttaaag 120
gattttcaat taacagatta agtcaaatga ctcttggttct tcacaactca ttttttactc 180
tcgagaaagc caacttttaa gaacaaaaac atgctaaacg aatatgtatg acaatttaat 240
gacttatgca aaatgcaatg cgtgaatata ataagtggta aatacaggaa tgatatgttc 300
attatgatgc catgaagaga tgcattgatg gtgttgcaac ctacccttcg gcgggagggc 360
gacgcgagac tcacgggagc atcttccaag gaaggaaaac gcgcggagtc gccaccaaac 420
gttattcgag gaaaatgtc 439

<210> 29660
<211> 537
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29660

tattcgcacc aacaatactc acagcacact acgttcaaca ttccgcaccc cccccagcga 60
gtgagcttgg acatagcaac cgacaacccc acgtccgcga gccacttaga ccgcactgca 120
tttctattc ataaantact tacaggcgca cctgcggtcg ccgagaaact ttacatctga 180
tctgaacaca aggatacgtt cctgccgaca aaccataatc atgcaatgac acgctctaga 240
taatgagagg tggacaacgg tgcaacggct gtgaccacct aaactaccgt tatataagaa 300
cccacttcac gagctactac tcttccgtga aaacacgata aattgttggt tcgcaccact 360
agacagaggt tagaacgtat gaaactctc actaaactca ttatcgcacc acatatacag 420
cttcacaaac gaggggaggt ggaaagccat tgatgttgta gagcaggaat ataactaga 480
aacagtagac tagaaatata caacaggcaa atcttaacaa agctcttttag ggagccg 537

tattcttcaa	ggtcatactt	cctaatagaca	ttcatgagat	aaattatcat	aacgcgcaca	60
tgtcatgtag	ttaaggaaac	aacaaaagaa	aaagattgtc	aataacaagt	caaaatatgc	120
acaaaaaaag	aagtttctat	tagtacctta	gaaaccataa	atgcacacaa	attgtgagaa	180
ggtaaacaaat	tgcaataact	gactatggga	taaatagaat	aaagaagtaa	taagcaaatt	240
agagaggtca	caatgcacta	ctattagacg	ctcatctgag	actaagaatc	aagcacaaaa	300
caatacccaa	aacttcaaac	actttaatca	agcatattac	agtggtcaca	aactcacaat	360
gcacggtcac	cacatatagt	aagttactat	cactaagaag	agaaccgatt	aatggccaaa	420
aatggttgtc	cca					433

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<223>      unsure at all n locations
<400>      29662
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<210>	29663
<211>	417
<212>	DNA
<213>	Glycine max

<223> unsure at all n locations
<400> 29663

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taacttgggg tctgtcttc atgattttta agtttaaatgt gctaagttgt ttcaagtttg 120
gtctttggca agtgtgtaca aagatattca tgacccgcta attaatagga aagattcaac 180
acctatagga tatgaagaaa cttttagcgt attgctaaat tgctgatttc ttaatgatgat 240
gaaagactaa ctcaatgatg tctactccaa tatcaatgat atagagtctt gggaaattga 300
gggtttttgc ttaaaaaaat tcanatactg aaagttttat ttccttaata tcttggttct 360
ataaagattc caataaacia gaagaaaaga gacacttatt ttcanaaat tatattg 417

<210> 29664
<211> 104
<212> DNA
<213> Glycine max

<400> 29664
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ttggggctct ggttttatga tatttaaatt taatgtgcct acct 104

<210> 29665
<211> 357
<212> DNA
<213> Glycine max

<400> 29665
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aacagatgcg tcacgctcat cttgcttact ggagctgggc tatctaactt cccatatcgc 120
atcatatgtg ctgtagccac tctgaactac ttcgacattg atgacactga cagcacctgt 180
ccgatagcta gactagatgc tcttcactat gccgcaataa cagagatcac ctgctgaaac 240
taagatgcta gcaagaccta tattggtttg agaattaaca tgaattctta tggagaggat 300
aactctaact gttattcgtc ataaagcatt tgatgtcat tatctggcat tgccctac 357

<210> 29666
<211> 77
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29666

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gatggaaccg acaacat 77

<210> 29667

<211> 413

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29667

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naaatcttca gaaccaagtc acttgaagaa atgtgacttt tggaaatgta tttttcaaaa 120

tcagtcattg gtaatcaatt accattaagg tgtaatcgat tacacatcaa tagatgtgac 180

tcttcattnt gaattttgaa aattaanatg tttagaaaca ctggtaatcg attacaagca 240

ttgtgtaatc gattacacaa gttaaaaatg ttttaaacaca agttgtaact cttgaaattt 300

gaaatcttaa cattntaaaa cactggtaat cgattactac cttctggtaa tcgattacca 360

gagagtaaaa ctctttggta atgaatttgt gaaaacttct tgtgctactc aat 413

<210> 29668

<211> 409

<212> DNA

<213> Glycine max

<400> 29668

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cctgaaattt cgaagtccca ctcgtagaca cgcacttcac gactccgaaa atgctctcct 180

ttcacgattt ggggcagaaa tgatggccaa aggttgaagc tttgtttgga gcttcaatgg 240

agaatgaagg agaagagaat ggcaacgtga gggagagaga gagctgtctg aaaagtgtgg 300

gggctgagtg aagagagaga aaagcttttt ggttctaaat aacaaggggt ctctctgtat 360

ttctattatt ttatttaatc aatgccacat gtctccattt gagtggagc 409

<210> 29669
 <211> 465
 <212> DNA
 <213> Glycine max

<400> 29669

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 tctcgagagc tttcgttggt cattttcaag cttctcgata tagtatgcgc ctgaatcgga 120
 cttgcacttg aaaagatatg accatttgaa cttctcgaga gcttgcgttg ctcaatatcg 180
 agcgtcttaa tatattatgc gcttgaatcg gactttcgtg tgtcaagtca tgactatttg 240
 aatttcttga gagcttgctg tgttcaatat cgagcgtctc ggtatattat gcgctggaat 300
 tggactgtca tatgacaaga tttgaccatt tgaatatctc gagagcttcc gtgaccgttc 360
 caggtttaaa taagaagaat caccggacga cgccgatcga acattgtcta gtagacatcg 420
 tccaaatatt atcggcggat tgaatatata aaacaatacc ggaca 465

<210> 29670
 <211> 427
 <212> DNA
 <213> Glycine max

<400> 29670

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 ttcatcaaag ttatgacaag tgttacacat gtttctatgt atagcctagg tcactaacta 180
 tatgaaagct ttcttgagaa gctagagttt aactacacac actccctcta atagctaagc 240
 tcatctccat gaaaagcttc cttgagaagc tagagcttag ctacacacac ccctctaata 300
 gctaagctca ctcttatgtc aaaatacatg ataatgctta gctacacaca cccctctaata 360
 agctaagctc acctctatgc caaaatacat gacaatacaa aaaaattccc tactataaag 420
 actactc 427

<210> 29671
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 29671

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tactactctt cttcctccac cattgaagct ccacacaaag cttcaacctt tggccatcat 120
ttctactcca aatcgngaaa ggagagcatt ttcggtgacg tgaagtgcgt gaatacgagt 180
gggacttcga aaatacaggt taggggtggac tcacttctct cttgatttca tgagtatggc 240
gcttacgaga tatgatgggc agacttgcta tgttactgct gtgtgatgat tatttgagaa 300
gacattagct gaagcttgat gaaattgcc a tgattgtatg acttatacat acccattatg 360
gtcaaggttt taggacgatg ttcgtatgct atatgcaaaa tgctatggaa actgta 416

<210> 29672
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29672

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tttgaaaatg gatcttttac tctgtgcctg caaggactgc tgacccttcc acctgatagt 120
tcatcgcatc aaatagacaa aatatatcat aagatataag tctcacagtt cataaataga 180
gagagccaca cagtcaaaat aagcaaacta accatgaatg caaaaacaaa tattgaaata 240
aataatacca ctattatgtg tagtgcagct ttccaacttt tgtacctaac tgaaggagac 300
ttgtcaatca cttgagagcc tgtagcagat gcaatactgt aattaatgaa gcttcattgt 360
gagaactgtg gtacaaccta tagtgacaga caattagtca tcattata 408

<210> 29673
<211> 470
<212> DNA
<213> Glycine max

<400> 29673

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gtgttaattc actcctcatg tgttgtttat gtttgatca tgtgatgatc ttaaaccttg 120
cgtttgtgag agcaaagac taggtgaatt actttaagaa accttgtgat gaaggactcc 180

gagacacaat attttgatag gatgtaacat tggaacaaga gtttctatct taattgcatg 240
atgtatcaaa catgtcattt tactctatct gataaacttg aacagtcttg ttttaagtca 300
taaataatttc taagacattt tatttggtaa cagtgaagcg aatgtgaaca ttatccacgt 360
gaacttattt acgatcttat tgaataaaat tgatttaatt agattccgca ttgtatatat 420
gtttctttca tatatatgta tgttggagta caatgtgtga gagacatctt 470

<210> 29674
<211> 418
<212> DNA
<213> Glycine max

<400> 29674

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ctcataggtc tctataaaat gtacaatgta actaaaaatg tttgggaatg aaattaaatg 120
tcacacttcc gcaaatttta cgcaatgctc tctttctctt actctctatt tctctctcct 180
tctatctttt agtttcaatt cattactaat agatgtcatc cctctctttt tgtgtactca 240
aagtcagaat ctgtaatgta cagtctaata tatgtagagg atatcatagt cactgcaaat 300
gactctaaac tgatttataa actagtttac ctattttcct tacaagatca tggagatctt 360
aattattttt tgagaattga agcagctaata taagttgatg gctcacatat acttactc 418

<210> 29675
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29675

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gaataatcta tctttcaatc ttctctcaac atcattcaat atctttcaac tctttctaca 120
taattttctg attcatttct ctcatcttt ctaaaagttt ttgttcaagc actttctctt 180
ccaagaaaag ttctttgttc aaaaacttgc gctattcatc cttttcattc tcttctcgct 240
ttgccaaaag aacgaaggac taaccgccta aattctnttg tgtctctctt ctcccttaca 300
aaagattcat aggactaacc gcctgagaat tcttttgatt ctccctttc cctatagcat 360
aatatttcaa aggactaacc gcctgagata tctttgtccc aacacattga aggttacatc 420

ctttgtggta caagtagagg gtacatctac tncgggattt tataactga

468

<210> 29676
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29676

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agcataatta aaacccaaaac ttaactcgca gatccctcat gtaaggctaa gtttcaatcc 120
tgcttcaatc aagtttctaaa gcaacagtac atttcccaat gctaaagtca cctaactatg 180
cacacaaatg ggtgatcaga ccaaaagcat acaaacatta agcattgaag gaagcattga 240
acacaaaaaa cataatcaat tagatattgc gtatttacat caagtgttca ttaaaaatcc 300
tcaactaggg tgtttagcca gccattacaa agaaacccta ataataaatg agattaanag 360
cagagaatga tagttccata cataagacag nggattcctc ctcctcttct caacatctca 420
cac 423

<210> 29677
<211> 338
<212> DNA
<213> Glycine max

<400> 29677

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taaggctcaa gtcctctta taccaataaa aagaaatgtc tggttaacttc attcccgtgt 120
acttctcata cccatatcca ccatcacaac ttaagcgtat tttgatagat tgttctaate 180
tattattggc tcatgtaatt atagaatgac tttaatgata agatgggtgc tagacttata 240
tgtattaaag tcattgggag ttatattagt ctttagaatt agttccctct cttctcattt 300
cattaacggt aattttggca ttaaagacca aaaacttg 338

<210> 29678
<211> 341
<212> DNA
<213> Glycine max

<400> 29678

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acaaaaaaat gaagataatt caagtaaata taaaaagagt acatcataga aagaatatta 120
caagaagagg gtaagagaga gtcttccggc attcttctta catgtttata tgtcataacg 180
agttaaagat tatctaakat gaatttataa atgcaatctt agaaaaaaaa aagaataaga 240
aagtatacat ctcatgtcat tgtaattgag atataaaaaa tagtcatatg acaggagaca 300
atgggtttcaa tgtattccat aactatagct ctttgagatc c 341

<210> 29679

<211> 396

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29679

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aatgccgttc attcatagtg agagagtctc acagtttata tataaacgga gatatcatca 120
tacaatttcg tctcaattag acaaccaaca tgacatgaga aatttatgaa tgaaagattg 180
ctatttgcct tttctttgta aggacaggag atggtacccc aattcataga agacaaatan 240
tctttaggct caaagaacat tcctagaaga cttacatttg tctcacccca tatagacaat 300
tcagacgagc aatgacttaa aactataacc tgtttgatgc aagaccttat cttgttccat 360
ctgactaata tcttggttcgt aaagatcgct atatgt 396

<210> 29680

<211> 416

<212> DNA

<213> Glycine max

<400> 29680

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agcacgaaat tgaaggaata aaagaggagg agaagtggaa ctttgaagta tgtctcacia 120
gactctcatt catcaaagt acaataagt ttacacatgt ttctatttat agactaggta 180
gcttccttta gaagctttct tgagaaaact tccttgagaa gcttctttga gaaaacttcc 240
ttgacaagct agagcttaac tacacatacc cctctcataa ctaagctcac ctccttgaga 300

agcttcctta agaagattcc taaaaaagct aaagcttagc tacacacacc tctctaatag 360
ctaagttcac ctcttgaga tgagaagcta gagcttagct acacaccccc tataat 416

<210> 29681
<211> 450
<212> DNA
<213> Glycine max

<400> 29681

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tcttctgcgc cttttgtcat ccagaggcgg cgggcccgat gacatgcggg aaccatttgg 180
tcccgcacat ttttaagcttt cttttgctat ctctaagact caaagcatga tagcacgcag 240
agactaatgt cgtcttctgc acctattgtc atccagaggc ggcgggtccg atgacatgca 300
ggaaccatct ggtcccgcat ttttaaacad tcttttgcta tctctaagac tcgaagcatg 360
atagcacgca gagactaacg tcgtcttctg tgccctttgt catccagagg cggtgggccc 420
gatgacatga gggaaccatt tgggtcccaca 450

<210> 29682
<211> 64
<212> DNA
<213> Glycine max

<400> 29682

tgcttaaagt tttagtctag tgatatccgg agaaatttgg cttcacagtt aattttggtt 60
tctc 64

<210> 29683
<211> 453
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29683

gcttctaagg aagttttctc aagatagctt ctcaaggaag ctacctattc tatatataga 60
agcatgtgta acacttggtg taactttgat gaatgagagt cttgtgagac atacttcaaa 120

gttcacttc tctccctctt ttattccttc aatttcgtgc tccctcctct ctctttctct 180
 ccctctttct tttcctccat tgaagcatcc ttccaagctt cttatccaag gctcattccc 240
 tagtggatgg cacctcctct cacctcttct cctttgtctt ccgctgcac tccatgggtgg 300
 aaaatcacca ttaaaggacc tcattgaagc tcaaagatcc agcctccata gaagccccac 360
 atgcaagctt acatcataaa cattntccat aacttgata gctgccaat ttatgggtat 420
 tctgtagtga ttctgtaa ataatcttggt tta 453

<210> 29684
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29684

agcttgaaga agttttgatc tgcacattaa aggtgtacat tcaatcta at tttgatttct 60
 ttgtaaaagt ttaatcttgg ctagggttac caatggattt tgagttgata gggtttcaac 120
 tcttggattt tctctttgat gcaatcctcc ctatgaagg accagttact agatccatga 180
 gccagaggct tcaagaggat tgggctagag ttgctaaaga aggccctatg gttctcatga 240
 acctcaaggt agatttctga gcccatgggt caagggtggg tccaattatc tttgtacata 300
 ttagattang atgtcattat atttggctct tgtatttacg actccataat at 352

<210> 29685
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29685

tcacacaggc aagtgtttca tctcaattcc aaatcacaga tatgtcaa at tgattttgaa 60
 gtcatttccc atcaa atcaa ggataatgcg cataatcatc atggatcaat aggtcttttc 120
 aagggtggac ttgtaggaaa ttttggcatt ggttgctttn ggtttctttt tcttttttgt 180
 tttggtgttt ttgtgtgca taagagagca ggcataaaga tttggctagt agcttaaa at 240
 aggcgaa atc ttctatcct ttcatgcctt gaccaagttg tcattat ttt tcttccattt 300
 tgcttttttc aacaactcca cacatggntc agatgtttgt tattataa ag aacttattct 360

tcttctctat tttcctttt

379

<210> 29686
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29686

agcttcatca atgaaacaag gaaccctttc cgtcacggag tacttcacaa agcttcgtat 60
catatgggat gaaattgaga acttcagacc tgaccccact tgttcttgca ccatcaagtg 120
tacatgctca gtcctcacca tcattgcca acggaaatta gaagaccgag ccatgcaatt 180
cctatgagga ttaaacgagc agtacaacaa tgtgagatct cacgtgttgc tcatggaacc 240
catgcccacc ataccaaaga ctttctctg tgtagcccaa caagaacgtc agctatcaat 300
tccttttcaa atctcaatct tgaatcanaa gaaaacgttt ccattaatgc cgtcaagaat 360
acttgtgaat tctgcgagc aaatgggtcac accgaaagcg ttggtacaag aaacatgg 418

<210> 29687
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29687

ttccaaanag agttactaga gacatgttag taagatctct tgattatgca attgttggtta 60
cttttggttg ccattgcctg cttaaaccatc taaacactct gttaatgaga tcttcaatag 120
gaaatatttt tcccagtgat gcaagatgat taactatatt agtaaatctc ttttgcatat 180
cttgtatggt ctcatattga ttcattctaa acagttcata ttcattgtgtg agagtgttta 240
ttctagatct cttaacatca gttgtgcctt catgggttac ttgtaatgta tcccatattt 300
cttttgcatt tttacaattt gagactccaa aatacttatt cattcttctc taagtttttc 360
tatcagtgca tatcccacta ccattgcagg aatgaaggga ccaatgtcaa tgggttccca 420
tatatntaaa tctatggctt ctata 445

<210> 29688
<211> 175
<212> DNA

<213> Glycine max

<400> 29688

agcttataat catggttacc tcgaaagaga atgaacggtc agattagaag ttcgttctct 60
atcgaaacca caagccaagt tggaagattc tgcttcgggtt gaatgggtcc tctcgggtgcg 120
tgtttcaatg gagaacaatg atggtttgtg gtggctaata gtgggttggtg gtgat 175

<210> 29689

<211> 432

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29689

ntagcagatt caaatctccc agtgagtgc ttcacatctc tgcagaatc actntcttgt 60
tcaactctctg tatcatcaga ccgacttaca ganagtcctt tctctcgctt cttgagatga 120
gtgggacatt cagctttgat gtgtccaaag ccttcacacc cacggcattg aattcctttg 180
ctgtgactgg gcttttcatc tgaccttttc tggatttcac tgcctttcct gatgtcgaaa 240
gggatgttcc ggacatgtgg tttctgcctt ctgtccattc tgttcatcac tttgttgaac 300
tgctntccaa ggagcacaac tgcattagtc agaccttcat cagtttccag gtcataactca 360
tcttcttctc cttcatcatt ggacacgaaa gccaaattct tgctcttctt ttcagcccta 420
tccgagagtc ct 432

<210> 29690

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29690

agcttgaaca ttctanaata tcatgggatg tatttgacac aaggtacact gatattcaca 60
taagttntcc ttcaagtttg aaaaagttgc atcttgaagg ctttcttgac caaaatattc 120
cagaagccta gcaactacc tgaaggattt acacaactaa atataacagg aggaaaactg 180
aaaagtttgg atgatggaga aaacgataat attttatggc atatgcagat cgtgcgtctc 240
aagtagctaa agcttttggg tattaacttg acaaatttac aagagttgtc tcctttgcta 300

aggatatgcag aaataaaaaca aatcctacac cagtatatatt catttacgag tataattcat 360
 tatgccacac atatataaat gtgtacaaac attatgtaca tcactatttg ttataataaa 420
 ttgaa 425

<210> 29691
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29691

ttttcattat atattagcat ttcatttgcc tccttacatt tgatgcatca ttggtgtctt 60
 ctagcagtga tgatatgatt tttataagat aaccaaagt ttacttcttc caaaattgag 120
 gtgtttgttt ggggtgtaga aatcttcata tttgatgtta tgcttttacc ctttatttca 180
 atgttgattg ttctttcatt gcctcaccag acaagatcta agaggttctt ggaaattcaa 240
 caattgaggg agcataataa agagtatgac atgaagacaa caatatattt ggttaaagaa 300
 acaactaaaa ccaagtttgt agaaatagta gacgccatt tctgcctcaa cattgacctt 360
 aaatataacg atcaacaatt aagagcaaca gtgagtctcc tgctacttgc ttgattatgg 420
 tatatgcagt tacattgaan acgtgaggt 449

<210> 29692
 <211> 387
 <212> DNA
 <213> Glycine max
 <400> 29692

agcttcttga attcatgttt ctctcacgag aagtcaaagc tgctagaaga gaattcacaa 60
 ctgtcgacca acgtggcagc ttgtgacaat aatgattcac acgctcttta cggagggaac 120
 acaactaccc tgcattgatc tccatatgct gacattgcta gacctctttc agctgtccaa 180
 gtagagaata tgtctggtat aaatacaaag gtgtgtgaat ctggatcttt cagctacagt 240
 gagaagttgg accatttgga tgatccacat gttgatgctg caaactcata tgaaaataca 300
 atgacatttc tggaccttc ttcatcttat tctgcttcat ataatgcaca tgatcaacca 360
 gaatctccat tgcaaaactta tggagat 387

<210> 29693
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29693

agcttcatga tgacgaatca agattaattc aagttgtttt gatgataaca aagatgatga 60
 caaaaagctc acgagaatga tttcaagatt gagtcaagaa caattcccaa gagaatgatt 120
 tcaagattga gtcaagaaca attcaagaat caagagaaat ttgatttcaa gaatcaagaa 180
 tcaagaataa tcaagatcaa gattcaagac tcaagattca agaatacaaga gaagactcaa 240
 tcaagataag tattaataaag gttttcaaaa cattgagtag cacatgaagt tttcacaaaa 300
 tcttntacca aagagttttt actctctggt aatcgattac tatgttactg gtatcgatta 360
 ccaatgacaa agcttgtttt caaaagcttt caacttgatt tac 403

<210> 29694
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 29694

tgtaacgcca taagcaatgg cgagaaagac gatgccgcca ttgactacag cgagacatgc 60
 tgtgactcac tgcccatgcc gccattcata ctggcggggac atgctgacta ggaaagatga 120
 gcatctcgcc agtccttctt gcgagacacg agcccatgcc gccattggta ctggcggggac 180
 atgccaacgt ggacagtccc gccattggct cctacgagac acgttcacgc catgcttaag 240
 tctgaagatg ccaactgttga tgatgagact gaagcattgt gatgcatgct atggctcaaa 300
 ggctagggct gtggttcaca tgcattatat gcagaggctg aagcattttt ttcgtgatgc 360
 aggctagggc tagagttgta gttcacatgc attctgtgca agtatcacat gcatacagtg 420
 tagc 424

<210> 29695
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29695

agcttgtagg attatggggt acccatcaca tgtggtacta ggtggcggtc gggcgatggt 60
gcacaacaag ttttccacat ccacaaagcg cgcataaacc caccatcccc tgttgcccac 120
ctccaactga gctcacgtac tcccacgtag cccatatacct cttttctctc aacaccgggt 180
ccccatcaat cctcccaagc tttcccaaca tcaaagtaaa acgacattca aacagcacia 240
gctatcacag ccaagcaaaa cagagcaaag gcagataact ctgccaaaac accaaccaaa 300
tcacagcttt tctcacttan agactccaat aacaattcct tcgttccggt tcattaaccg 360
ttggatcgac tcgaaaantt tactggaagt cttagtaca taagcctaca t 411

<210> 29696
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29696

tgctgccacg gagtnttccg actatgctct tgtgtggtgg aacatgctac aaaaggagag 60
agcaagaaat gaagagccaa tggttgatac atggacggag atgaaaaaga tcatgaggaa 120
gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaaccca 180
aggcaacaag ggggttgagg agtatttcaa ggaaatggat gtgctcatga ttcaagcaaa 240
tattgaagaa gatgaggagg taactatggc tcgatttctt aatggtttga ctaatgatat 300
ccgtgatatc gttgagctgc aggagtttgt tgaaatggat gatttgcttc acatagcaat 360
ccaagtggag caacaattaa taaggaaggg agtagtggct aagaggagtt ntaccaactt 420
tggttcttct agttggaaag acaaa 445

<210> 29697
<211> 326
<212> DNA
<213> Glycine max

<400> 29697

agcttggttaa ttaacttaga gaaaatcaag atcaagcttg ttcgcacatc gctcgtgtgt 60
atgatatcca ctgcacaagg tttgaagtag aggaaacctt caatcctata acgcaacgtg 120
gcggacaaaa gtgggcaatt aacttgaatg gccattattg tcaatgcgga aagtattttg 180

cgcttcacta tccatgttca cacattattg ccccaatata tagatgttgt ttacacaaat 240
gaacacattt taaaagctta ctccgcacaa tgggtggctc ttgggaatga agcggctatg 300
tctcctctaa tgacgcatgg acatt 326

<210> 29698
<211> 439
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29698

tcagtcaaaa gcattgacaa tccaatgcac aattaggtag gttgtaaagc tcaagcaaatt 60
aacacatcaa tgtcaaaatt tgaagacgat taattaggtt gttaaagcaca atcattcaat 120
taatgcatca gaagtgtttt atccaatacc tagcttgaat catcaaaaaca ccaaataaag 180
ccataaacac aatccaattc aattgcaaatt taaaagggtgt cacaagcttg tgttgatga 240
caaaccaaac atacaaagca atatccaagc caaagttgat ggctattgaa ggagtaagt 300
cacctttgtc cttgaatata tataaagatc accctataaa aggaaacaaa tatacattha 360
gtaaaagtta atgttaagat cgcataactn gagagcatga gaacctagat gtgtagttat 420
atgcaagcat tcacaaagt 439

<210> 29699
<211> 421
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29699

agcttctact tatgtggcag ggcgggcttc cttcaccttc ttgtctcaa cgcgaacttt 60
gaccattgtt cttccttccc gcgatgcttc ttttcatgtc tgcttgagtg ggcttatagc 120
ctaaaccata cttcccacga ttaccttggg tatttatcag tctagttatg ccgccgttgt 180
tttttcctaa acccatcccg ggctcataac cgttcccaa cataactcgg gccatcatta 240
ccgctgcacg ggacagactg ggctgccccaa agaggaggat cacggaggat atgttgacca 300
cctcanaaga ctggaaagca gtttctaacg attcttctgc ggcttcacaa taaggcatgg 360
aggatgggca gcttaccaag atatcttctc cgcctgacac gatgaccaag tgccctctta 420

<210> 29700
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29700

atgaaacaac gagatgatgc gctccatgag aggctggatc aaatggagaa tagagatcat 60
 actgaagaag aaaggatgag aagagggaat gactgggttc ctagaacaaa tccgaattga 120
 tggattaan actcaacatt tcctgcatat aaaggaaaga atgatccga tgcctacttg 180
 gagagggaga tgaaaataga gcatgttttc tcatgcaaca actatgagga ggaccataag 240
 gtgaagcttg cgcgcacgga gttttcgact atgctcttgc gtggtggaac aagctacaaa 300
 aggagagagc aagatatgaa gagcccatgg ttgatacatg gactgagatg ataaagatca 360
 tgatgaagcg gtat 374

<210> 29701
 <211> 423
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29701

agctttgagc tataatcctg actcaccata aaccttgacc canggtgaga atgtcaatcc 60
 ttaccctcgg aagcaaaaaa aggaagagaa ggaaaatttc caagcaaaaa aaaggagaga 120
 aggaaaattt ccaatcaaag gaaaaaaga ggaaagaaaa tttccaatca aaggaaaaaa 180
 gagaggaaag gaaattccca atcaaagaat gggagaaaga aaaaaaaaag agagaaggag 240
 aagaaggaaa gaaagctcct gatcaaggat cgaaagaaaa cagaagacat gtgcataaga 300
 acaatacgga attgtcacca aatgaacaaa agaaagaaaa ggaaatcata acctacaagt 360
 ggtcttctcc ctgtgattac caatcaaat cctgtgcgtc ggtgacttgt tcgcctcgcg 420
 tca 423

<210> 29702
 <211> 441
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29702

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aagagcatga ttgattagag aaatatatatt ctatgcatca gcttatttgt tagaaagacc 120
caacatatct acctactgtt gtcattttat ttaccttgca ttttatagct tttagcatac 180
aagtttagtt tagattttgt ttgaaattat cacttataca tgttctctca acaatgcttc 240
gattctgaac ttaattcagg gtaacattag ttccctgtgt tcaatactca gattcattcg 300
ttttaatttt aaatacttgc tgatctggtg cgctctccga taaaccccgga tttacatttc 360
cttgagacat agatgcacaa aaagtaactg caatggcgag tgagcanagt atctatggca 420
ccattgccgg agaactaaat t 441

<210> 29703

<211> 249

<212> DNA

<213> Glycine max

<400> 29703

agctatagat attctatagg gattcagggc tgtccatcag ctctgataaa tctgccatat 60
actcagccgg tattaggcct catgagctat ctcatattca gcagattact ggatttagct 120
tgggtgatgt ccctttcaga tactcatgtg tttccctttt atcatctaga ttaaatgtat 180
gtcataatgc tctcttgctt tccaagataa ctggcctgat tcaggaatgg agcaaaaagt 240
ctttatctt 249

<210> 29704

<211> 459

<212> DNA

<213> Glycine max

<400> 29704

tagggttcaa ctcaatcaat cagatttaag ctcataatgg gtgcttagga ttcattcattc 60
atgaacaggg taagctatatt ggctaagtgg ctaattcaat caatcacaa cttcatcatt 120
tccaaatcat gcattcatta agtattcaga gattcatgca aaaattggta ctcaatgcta 180
gtcgttctct cacaattaaa gatcacacaa ctactgggt tatggctaatt gattacattc 240

actattttatc tgtcaaacaa actaacaatt tcactcacgc ccctaattca tgttctttct 300
 cttctaatta cctcatactt attcaaagca cgtgatctaa cattgcaatt cactcaagtc 360
 atgcaatcaa tcgatttcag aaccaataac atacaccaga aattttatacc ataacatacc 420
 actgcataac aattaaaaaa ctgtaaactg gtcaaaaact 459

<210> 29705
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 29705

agctttgtga agctcctggt ttagctttac ccgattttac tcaaccattt gaagttgaat 60
 gtgatgctag tggagttggc attggggctg ttttgatata aaacaaaagg cctatagctt 120
 atttctcgga gaaattggga ggagccagat tgaactattg cacctatgac aaagagttct 180
 atgccattgt gagagctctt gatcattgga atcattatct gcgttctaata cactttatat 240
 tgcattcaga tcatgagtca ttgaagtata tcaatgggca gcagaagttg agtccaaggc 300
 atgctaaatg ggttgaattt cttcaatctt ttaattttct ttcaaaatac aaggatggta 360
 agagtaatgt ggtggctgat gcactttcaa ggaggtatgc ttttaatttca at 412

<210> 29706
 <211> 208
 <212> DNA
 <213> Glycine max

<400> 29706

ttgagcagat gcatacgaca ataacctttt tactcggaag tcgtattgtg tccacggata 60
 tatacagacg ctcgaaattg aatggagaag ctatgaccat gtttatacga caatgacttt 120
 ctactcata gggcggatcg agtcctgtaa atattgagac gtcgatatg aaataccgaa 180
 cccctgagct ttttcaaacg actttcac 208

<210> 29707
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 29707

agcttttgtt atcacctaaa aaccattntt taaaggtcca acgccttgaa atggtcattt 60
tcgcttttat tgggttaaagc tggattttta aaaagcctaa aatcaacaca tagctttgtc 120
acctctttca aaaaaaaacc aagagatcat taatgggtcca atgccttaat attttctccc 180
ctttcaaaag aatcgaaaaa tcgtttaatg gtccaatgcc ttaaagacc ttttattcaa 240
tcaaaatata tcttgcaaaa aaaggataaa aaaccaacgt ttagttctca nagaactacg 300
tangtatgat ttccttatca caattgagga atacgtagga gtaagggaaa cacccttgt 360
cgaccacaaa aagataanan atacanaagg cataaaagac ataaaaaacg ta 412

<210> 29708

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29708

tgatttctgg aacttaccgg ttgaagaccg aagaacgaag aagatcgaac aaagaacgac 60
gaataacggt tgacaatctt tgcgaaatca cccacggaaa tgtcacggaa acgttacgga 120
agcgctccg cttggatttt cttcacggaa acaatttttc tctaattg taagtgaatc 180
tcagatacca ggagggttga aaatttttgt tcttccctcc tccccctatt tataggaaaa 240
ggaaggagaa gcttgccacc cagctcgccc agatgagcta ggttgcttcc tccagaaggc 300
accacaatga tgcttgtttt gcacaacaat gctctttctg acttcagaa tggtgcgaaa 360
ctttacggat tgcgcaacag tgcttggtta acatttcaga atgttacnga actatatgga 420
tngcacaaca attctcgta aac 443

<210> 29709

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29709

tggttggtgc tnggataacc ggacaagagt gtaatcana ttatgcaatg gcatgaagtt 60
tttgccacca aataataaca acaatgtcag atgtacgtgc aattggtaaa aaaaaaaaaa 120

aaaaccactg ctgcaagata aagcaactgt cattcatgcc tggccaaaaa aaccaagat 180
 tttggcaatg ttctctttgg ctttgggtctt tnggatggga actaatgtgg agctgagaaa 240
 aaaaagggtg gaattgacgg taacgcttac aaagacatga agaacaatca tgtgtcccg 300
 cgctttcaaa cgcctcacgg aacagacaca acaacatccc tagaaaatca ttcacacaaa 360
 taaagctgaa ggctccaaat tttgaacgta gactnagcta gtgtactagg caaatgacct 420
 cagtaagttc tattttttaa c 441

<210> 29710
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 29710

agcttgaaaa attgatagag ttttattctt agatttaata ggaaatatcc aagtgtacct 60
 ggaaaaggca tcaataaagg atacacagta tttatgacca gcataggaag tcaaaggctc 120
 ccacaaatct gtgaagataa gctccaaagg agagtaaaca gaaatagaag tgtgagggtg 180
 taatctatga gattttttcca tcagcaggaa gaacaaaaat cagaaaatat tttagtagtt 240
 gtgggaaata ttacaatgat tgaagactag cttcattaca tgactattag gatgagctaa 300
 cctagcatgc cagagactag caatactagg agaagaaaca acagaattgg aaaccacagt 360
 agagttttca ttaaccgtag cagctgtaat agacaagcca gtatctgaaa ttgagta 417

<210> 29711
 <211> 507
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29711

cgcggtgac tcnctcggac tncnnnnnta tttagagtgt ctnatctat aatgcgcctg 60
 aatcgaacat ccgagtgaag agttatgact ctttcaatnt ctcgagagct tctcttggtc 120
 aatgtcgaag cgttcgatat gtgatgtgcc tgaatcggac ctgcggtgaa agtatgacct 180
 ttgattttct gagagcttac gttgttcaat gtccagcgtc tcgatctgtg atgggcctga 240
 atcggacctc gcggggagaa gtttgaccat ttgaattgct cgagagcttc cgtcgttcaa 300
 tttggagcgc ctcgatatgt gatgcgcctg aatcgaacat ctgagtgaag aggtatgacc 360

gattgaattt ctcgagagct gctttgttca atgccagcgt ttgcattatt atgcgcctga 420
 ttcggacttc cggtgagaag tcatggccgt gtgatttctc gagagctccc gtgggttcagt 480
 tccaggctct cgatatatgt ggcgccg 507

<210> 29712
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 29712

agcttgtgct tttacgaaaa gggtcttggt gtcaagatga agtatggaag taaccatctt 60
 gcaaatattg gggcaaaaga tggatcgctg tacatcggtt cttcgtctac tgccaaacac 120
 atttagggcc gtcgatgtcc ctgttacttc cagtttcacc ttgacgaaga tgtcatggac 180
 catgttgaaa atctaaattg attcaacccc atatcctgcg taaaaattcg caatacttca 240
 gctgtgcac attcgcatac atccatgttg ttcattgggt gcattgctca ttgcattctt 300
 tccttaaaaa aaaaaagaac ttaatcattg ttataaaaga aaaacatgat ttacgggtgcc 360
 ctcatcgaac ctgtgctaga gctagagtaa 390

<210> 29713
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29713

atttaccttg cttagggttat aggagagctc tttggtntaa gaacaatttt atcccaattt 60
 gngggagttt gcttggtgga taatttaaaa ggtaagaaac aacaacacac acaacaaatt 120
 aataaaatgt tctatgtgtt aaaaaaaaaag agagtagttc aaataaagtg tgtgtgcttt 180
 tagaacaag tcaagtgaag gactagcgag taagctaagt ggattgaaaa gacaaattgc 240
 gtaagtctag aagttgtgct ctcttagact tcaagctatt gcattctaga aaaaccaata 300
 tttttttttg tagccaaacc tcaactacaag ctaataaaag tccttctgat tcaatttgtg 360
 catttctaac attatggcat gagatgaagt acaaaaattg gacctcttgt agttgttatt 420
 gtaaatagct tanacacttg tgcgtgagtg atacagt 457

<210> 29714
 <211> 479
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29714

aggggacgcg ctggagcctg attgacgctt tgaactcggc ccgggatcct taagccgcct 60
 gctgcatgca agcttgagac ttacacngg tgttctttct tgacgagctt tacaaccgag 120
 acggtcttat ctctaaccag actcccaacc actatgatac gcttgccatt tctgtaacag 180
 atgactccaa agaagataac gttactgcac ctaacatcca ggacatacaa actactttat 240
 ttactcgatc agtccactgc ncaatcattg aaaccatgaa atgcgctcgtt ggtgtgagat 300
 agcacagtgc atagatgtct atgatcttta gcaccgagcg gtagcaacga agctcgcgca 360
 aagtaatgtg tctacactgc caattacaag tgagaaggaa ctatcccgta gcgtggatac 420
 ttctatctag gagttggcca acatatgatg gctgatgtaa actcagatga ttaagtatc 479

<210> 29715
 <211> 396
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29715

agcttgctcg atttgtngnn ctagatcttt cgtctttacc tcattttagt gttcccatta 60
 tttatgtcta tttattgaaa gtttattttc ttgattgttt ttaaataaaa ggttttccat 120
 tgaaatttat aatacatgag ttgacacatg caagcttata ctaattttta tggaagatct 180
 tccttgttta attttatttc atagttcgaa atcgccaaaa taatttatat ttcaacttat 240
 ataaatctct catgaagttt aattttgttt cgttgtttgc aattgccaca ataatacagga 300
 actgagcgtg gtagtagggg tgcttctatg cgtgcagcaa taaatgacac tgtccctgaa 360
 ccaaatcgcc gcttactgca aaggatattg attgat 396

<210> 29716
 <211> 359
 <212> DNA
 <213> Glycine max

<400> 29716

ttaacttctt ggaatgtgca tgtggcgatg gataaaggca taatccaagt taccttaacc 60
aatccagatg gaacttgacac tgggatacga tataatggcg gtgacagtct gcttgaagtt 120
ctcaacaagg aaactaatag aggggtatgtg cccctagcga tgagtatctg tgaattgtat 180
ctctctcaca cgtgtgccgc tgtgccgagc tcagtgccag agaaccattt tctgaaatgt 240
aatggtaatg aacaggaagt atcagaattc agctgacaga gtaacattga cacaggaatg 300
ggcgccagac caaggatgtt gatgtgatgc aatactgttt tttgtaccga tgggtgcttg 359

<210> 29717

<211> 404

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29717

agcttcggat gttaaggaan ggtcctagtt tgagagatcc gacagatcct gccagtgatt 60
ccaagaggca gccgctctga tattgttaat gcaacagtta attgctctta tctatgggat 120
tattatcaga tcttgaggct gacaaataac atgctcttac aaaacaacat gcgagcatca 180
gatcatgacg aaattatgac tcttgcacaa cggattatag atattgatga tgagattatt 240
ggacatgaca atgatggcta cgctactatc gaaatgtcac atgaactatt attcacagaa 300
tataatgatc ctattcatag catagttagc tctacattcc tagattcatg tcatcatcac 360
agtgatcgtg aatacttaca attcacagca atattagctt ctac 404

<210> 29718

<211> 496

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29718

cgcgccgttg tccccctgat nacngacctg agaacacttg gactnccttg taattcatnn 60
acgcntgaaa ggaaagaacg tgcttcaatt ttatgagaca atccgccata tatagtagtt 120
ttcagggccg atntacctat cccacccata ccccatatac caaaggctct aacttcttgt 180
cggcgcatcg taaagaatga ttcaatatgt gtacaatgct cctaaattca actagtcctt 240

tacgttgatt tggatatcaag aggcaattct tgccaaacat ctgcacaatg tccttaagta 300
 tttaggatca gtcctatcta ttaaagggat acactataaa ataaaaatga tcgatgcgta 360
 catatctatc aaatccaaca aaaagaatta tcccgatgcc ctacaatgat ttacagtcta 420
 caacagaaat agtcatgata atatggtgtg cggagacata acaagatttt attaggaatg 480
 aaaccctgct taaact 496

<210> 29719
 <211> 287
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29719

cacgcgagca ttgaacgaga tcttttggtc anagatacag gatcattcag ggatcctgta 60
 tgggcaacag agctcgagtc tatacgattc atggccttca tcatgttctg agttatacaa 120
 atcattctat aattcctaata gtaattttca gagttgccta tactatgggt gacgcgaata 180
 tctaagataa ggatcatgag gaacttatat ggatcgctga tacaattgac ctaatgtaga 240
 tgtcggatta aatgatagag agagagagag atatgatatc ggttatg 287

<210> 29720
 <211> 305
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29720

agcttatagt ctttacttat tgagaacaat aagccaaagt caatagttcc tatataacga 60
 agaattcatt ctgcggcctt gagatgagta gtggttgag tctccatgta tcgactgatg 120
 agtctagtag catatagaat gcctgatttg tgcacatcac atatcgana ctaccaccca 180
 cactctggaa attattagca tccacctttt ctgcctcatt gaactgtgat aacttcatct 240
 tgtactccac cgttgttcaa agtggcttgt agctatccat cttgaatttc ttgagcatct 300
 tctat 305

<210> 29721
 <211> 372
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29721

cagaaaactt atcttgcat tcttagctt ccttagtttc cttagcagta gcagtaaaat 60
ggaatacttg ttcgtatcag aggatgacaa tccaaacaga atgacgcctc atgcaccta 120
tgtggcaaaa ataaccatg ttaggtaaat tgggtcacaa atcaccattt ataattttac 180
acgtaaacat gtattacatg gacaatctaa tgatatttaa gcggtaatgt ctcttaagaa 240
gttttcaaac actttacttg ctactntcca ctgtgtttgt cacaccaagt actatgagaa 300
ggcaatagga ccaattcttg ttgatcctat aactaatatt aacatcctat aacttcgtgc 360
atttcacggt ga 372

<210> 29722

<211> 372

<212> DNA

<213> Glycine max

<400> 29722

agctttaacc ttattgtctc tcatagtctt tagatttggg agccaatcca atccttgtgt 60
tcggactctc agccacttat gatagccgcc aatgatccca ttactgcttc ccctaagctc 120
tctgtccttt cttcatgccg catcccatgc cttgogaact ccttgagta cctcgcggtt 180
gtggtcacta aaatctcgtg cgatgaaagg cgtgattgat gcaagctcca ttggagcttg 240
taggcctagg atcttcttca ccaatggatt cctttgcttc ttggaagata aatggcagcg 300
gaatggagaa ggaagagaga gaggagacgc cacttcaagg agaagatgag tctagaagaa 360
gctcaccacc at 372

<210> 29723

<211> 452

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29723

tattcaacaa tggcaaatca catttcanat tnttaagaaa ctcggtctca ctagtagttg 60
tgtctaaagc aataatTTTT gctttcatgc tagaatgcga aataataagt tgttcagtag 120

atttccatga tactgcacca ccaactaaag taaagacaac cacttggtcga ttttggttca 180
 ttagaatcag aaatccaatt tgcatacta aacctctcaa ttacatccta atctaccaac 240
 tgcatatgcc atgtcagacc cagagaaagt tgtcaaagtc aacaaagaac caataatttg 300
 aggatattta tgtgaaaaaa ttcttttact canacttttc ttttaacttaa tggatgagtc 360
 ataagaagta gaaacatggt tcacatcana ataattaaac ttcttcaata gcttttcaac 420
 ataatgtgat ggggttaaac ccatgtatca tt 452

<210> 29724
 <211> 376
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29724

atntccttgt ttctatttaa cacaacctgt acctgcgcac canaaagaaa tgcaagaaga 60
 ggtcgtatta ttctcatgag ccctangata gattttgggc ccatgggcta agtatgagcc 120
 cacttatctt tgtacatatt agagtaagat ttcattatct ttggatcttg tatttatggc 180
 tccataatgt aggtagggtta ccctagaaat gtaagatttt tcaaccattg tattttatga 240
 cacctagact agtatttgta ttatgggtag ttctgtaatt tcacatgcat taagtgaata 300
 tatgatgtgt gtgttgcgaa atacaattaa ttgaatcgng tgaagcccaa tccaattaa 360
 ttttataggg ggagat 376

<210> 29725
 <211> 354
 <212> DNA
 <213> Glycine max
 <400> 29725

agctttgaaa agtgggtggt ttacacctct cgctaagcca atccgctgtc ttagcgagcg 60
 tccgctaagc gcaacactca ttggctaagc gcaaggaaga atctggaaga aaatgagctg 120
 taccagttcg cttagcacac tgtttcgtct cactaagcgc accgcttcag tccatcagct 180
 aagcgagaaa ggcacgcgct aagccgaaat tcactaatgt gcgctaagcc ggccagaatt 240
 gcgctaagtg cagcagcacg aacaaggcca cctatttaag cttgaaatca gattttgtga 300
 agggagtttg ggctaggatt cagagctttg catgtctaga gattctagag agag 354

<210> 29726
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29726

agcttcacca ctttatgctc atctctattn ttttctaacc tctntgtcac gaaatcccta 60
 tgataaattc tatgcaaaac gcatctccta aactaaaatt ccaaaaaatc tttttttctt 120
 caaaaactac tccctacatt ggctccaaca ccaaccaatt aactctatca accatcaaag 180
 catccaagcc acccaggggc ggaactagag aaaaaagtta agggagacga aaaaattaac 240
 acatgattat gtaaaggaga catgaagaag aaagttgtaa tattaaactt aacatgttaa 300
 aagctgaggg ggacaaaatt ttctattnta agtgcagtta ctaatgaatt gtgattnttt 360
 aggagggacg gatgcccctt ttgagatggt tgtagttccg ccottgaage cacca 415

<210> 29727
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29727

ntatgaacag gcagccaaag tttatttacc attggctgta cgtcttcttc attactatgc 60
 tggggagaga gaccagnaag acccatataa gatctttatt tatgtaccta tttatgagta 120
 aatactatat gcattgatag tgtaaagagt ttttatataa taattcaatt acaaacataa 180
 atttattgat ttttatgata agtatcttaa agtcagatca gcaagaattt atgtggaaac 240
 taaactcttt attcattcac atatacttgg gtaagtgatt tttatgatta tttccgccct 300
 taattaattc aggttgggca gataaaattc atgggtctaac gggctcagct gacgggaata 360
 tcatgcacaa catcttattt ttttattatg gagaagcata tacttctact ttatgctgca 420
 tgttcaagag aggtgtactt atatt 445

<210> 29728
 <211> 269
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29728

agcttgatag cttgtataag aatatgactt cagggagatt caactntcac ccaccatcac 60
 tntatacatg caaaaactat ctttgtcagt tacataatct cttgatgcta gtttgggcat 120
 gactatgttg agcagaaaagt tgttgatgag cctgcacata tgtgaggtta gcggtcctca 180
 gaaagctgac caaaccttc ttataagatg attttggaca ctgttttcca tagagcatag 240
 agtccactgt ttcacaggtt atctccttc 269

<210> 29729
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29729

cttccttgat ctctttgaac ctaanggatg taccctccac tagaactgat ccacaagaga 60
 tgtaccctct cttggtttca gtcaaaccac agtagatgta ccctctactt gtgccacaaa 120
 ggatgtaccc tccaatgtgt taagacatag atctcaagct gttacacctt tgatactttg 180
 tgaatgggga tacaaaagga atctcaggcg gttaaccctc tgaacgctgt tgtattangg 240
 aatgggaaga ttcaaaagaa ttctcagact gcgtcgtttt gaattctttg acaagggaga 300
 agggagacac aaaagaattc aggcggttag tccttccttc ttttgtgaaa gggagaagag 360
 agacacacaa agaatt 375

<210> 29730
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29730

ttttatgcaa gcttctttct tattccanac tcccttcaca aaatctgatt ttaggcttaa 60
 ataggtagcc ttgttcgtgc ttatgcgctt agcgcaattc tgaactgctt agtgcacatt 120
 agtgaatttc ggcttagcgc atgcgtttct cgctcagcgg atgaactgaa gcggtgcact 180
 tagtgagatg aagcgggtgcg ctccagcgaac ctgtatagct tacttcttcc agattcttcc 240

t c g t g c t t a g t a a a t g a g t g t t g c g c t t a g t g g a c g c t c g c t a a g c c a g c a g a t t g g c t t 300
a g c g a g a a g g t g a a a a c a a c a c t t t t c a t a a t c g c c t a a t t a a c c t g a a a t t g a g a g a a 360
a a t g a t t a t t a a a c a c a c a a a a t g g a a g t a c t a a g t a t t t a t t a a c t a t a t t 412

<210> 29731
<211> 429
<212> DNA
<213> Glycine max

<400> 29731

t c a c a c g t g g t t t t g a t a c a a c a g c a c t g c t g c c g t t g t g g a t c t t g t a t t c a c t c a t a a 60
a g g a c a t t a g c g c g a g t g t c a t t t a c t c a a c c t c t g c a t c c a a c a t c t g g a a c g a t c t t g 120
a g a a a c a t t t c a a c a t c a a g a a c g g a c c c a g a a t c t t c c a a t t g c g g a a a g c a t t a c t c a 180
a t t g t g t t c a a g g a a c g a a c t c c a t c a a t a t c t a c t t c a c g c g a t t c a a a g g g c t t t g g g 240
c t g a g c t g g g t g a a c t c a a g g c c a a t c a c a g t t g t a a t t a t g g c g g g g t t g c t c c a c t t c 300
t t g c t t c c a t c a a a g a g g a a t t t g t c a t g t c a t t t t c t a a t g g g t g t c a a c g a g a g t t t t g 360
c c c a t g c t a g a g g t c a a a t c t t g t t g a t g a a a c c g a t t c c g g a t a t t g a t g a g a c c t t c t 420
c a t t a t t g c 429

<210> 29732
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29732

a g c t t c a t c g t t t g g a c c t t g g a g a t a t g t t g a g a g g c a g a g c c t c t c c t a g a g c a a a c a 60
g t a g a t g g a c a a g a a g g t g g a g a a g c a t g g a t c g a a a g g a a a a c c a a t t g t c g g g a t g c 120
a c t t c a a c a a c t a t g g a t g g g a c a a t g c t g g t g a t g a c g a a g g a g t a t g g a c t a a g g t g a 180
t t a g t a a a a a g a c c g c g a a a g g t t t g a a g a a g a c c c t g a a g g c t g a c a a t c a a a c g c a a c 240
a c c t a g t g g c a a g g g g t a a a c c t a c a c g t t a c c a t a t c a a c t g g a g g g a c a a g g a t g a c a 300
t t a c g t c a t a c t a c t t c a c c c a t t t t c c t g a c a a a g c t g a t g a a g a g t t n g t g t g g a a g c 360
a t t c t a a a a a a t g g g g t g a t g t g a g a g a a g t t a c a t a g c g a a n a g g a a c a a t a 413

<210> 29733
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29733

agctctatta aatggtagca taagtttata tatacaagag gatgaanagt ttgatggaga 60
 agctggatag gtagttacaa cagaaagctt aactaatcta actaacctaa caaactagct 120
 aactaacgca gtgctgttaa gatctttttt atcaccaa ataatcttata atcttgtgat 180
 gcaattcagg gcattaaggg gatggaacac ccaatattgg cttaggtggg gcactaataa 240
 gcttgtatct tctccccctt aaaggagtgt ggtagagtat gaattatcat gcacaatgtg 300
 aagctagaan atcacctact ccctaaagt tgactggtno tagtggaat atttgactg 360
 gttaaattaa attggttga atntntagt ctaattatgt tcaacctgaa caaatgaat 420
 cgatcctctn tgtgatttat aaactcgtcg gttgagtcta atta 464

<210> 29734
 <211> 430
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29734

agcttcgatc ctgatcaagc ttgtcacata aaccaatcct aagcctagaa catgatctta 60
 cacaaaccaa attggggcat gtttcttaat aaaattgctg ggctcaaaat cagctccaca 120
 tttcaaaatc gagagggata aaaaattaaa ataataaact aagtattggg acttggttag 180
 gcttcctggg tcttaaatta aacatattat caaacaacgc acctatctaa ttgacattat 240
 tcaccgtgtg tcataaatga attgatggac tacaatatcc aaattcaaca accaatatga 300
 acaagactca natgaattca ggatagcata atgatccaaa ctcacaggtg gttacataaa 360
 cgattatgta cgcactccgc tatcaaagcc actgtccgcc ttcaatgcta aacctgcctc 420
 agcataatga 430

<210> 29735
 <211> 477
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 29735

ntataaagct ctatntaagc aaatatcttt aggcaatgtg ggactatatg cactccctgg 60
aagctgcaat taaggcagca cctgaagagt ctgcaattaa gccgggctag ggatgaccgc 120
cattactgtg gcttttcaac aataagctta taaaaatctt gaaaatacta cattcgggtg 180
caggagcaga attgcaatta tcaaaacatc aattatatta gttaccactt atcaacagtt 240
caacacttgg aactttngtt aatngaaaat ccctaagtat tcatttttgg ccacagttgt 300
aactcaacaa ttntccagat ttcagatata gaaaggcaat gcacaccaag ttgttgatgt 360
ttctgatact cttcaactca ttggtttcat gaatntccag cagatcagct tcagttntta 420
gacaagagta ctgcatcaa tcttctatca gatcatttgg ngggggcatc aattaca 477

<210> 29736
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29736

agctttgata ttttcttttc agcattctct ttatcattaa ctgaattntt ttagaaaatta 60
caaagttttt taggaactaa attntattta atgaatctca ctcagattt tatagtttag 120
taaatttttag ctaataataa ataatagcta gagaaatagt gtaatgatag ttggtgggaa 180
tataagggag taaaacattg agagatttct atcaatgacc atgaacaaat tacacaaata 240
aatttgatac cacattaatt caattcaaaa ccttanaaca tttggattgt gagtctcatt 300
ttcttggatg atattcaact tgtccactct tattcaattt gngattntat atttcatacc 360
aacctttcat gcaatattgc ctaatggcat tngngaagat tcacaagtag agact 415

<210> 29737
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29737

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aataataatt gttaacttat tgacaaatac accaaattgt cacaagtaat aaaattaaaa 120
 cgaaagttcg aatgtcgaat ttacaaagat tttggttgta ctttagttaa tatataccta 180
 atttgaagc aagagataag aaattgtaat agggagaaga aacaaaaaat tgtaattaaa 240
 aggcaagaac aagaaaataa acaagaatga atgcacttga taatttcaga atttaaatat 300
 ggtgggggtct agcatgccc actatccttg atgcaatgtt aaaatgggtc tctatttaaat 360
 ggtattntaa ttntcattca catttactan aacactcaac tctgatccct catgatgaag 420
 agttcagttt atgtattctc tcttctaaat ttct 454

<210> 29738
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29738

agcttgtaat cttttatata agctattgat gcttaacaaa aggggagaga aaaatattat 60
 tttcctcatc ccttgagcta acttttggga ttgagttagg cccaaaattc acattctgag 120
 atggtatcag agccctagcg ccttcctttg acttttcgac acagacccta gcgtcgttca 180
 acccttttct ttttcttctc catcaccatg tctcactcaa actctatctt tcacattgct 240
 cttgttgtct ccaacatcaa gaattatgtc ctaatcattc ttaagatgga aaatgtccaa 300
 tacgtgacat aggctgaact tttcaaacc cggtgagcat tttttctcgt tgtctctctc 360
 anatctcttc ttttacctta tctctctcaa atcacttccc ttaccttacc ttcccttcat 420
 c 421

<210> 29739
 <211> 373
 <212> DNA
 <213> Glycine max
 <400> 29739

acttttggga ctccgatacc caacctggca cttaaataa gttattttgc caaatgggtt 60
 taaaggttcc cacccttcaa cccaacacaa tctaacttaa attctagaaa aatgaagtgg 120
 acaccacaat tagcaccoca ctcatccttg atttatcatt gttttaaaaa atcctacaca 180
 cttttaaaat tcttcaataa atagaataat caaggttacc aaaattcata ataaaaaaag 240

gtcattgatg atcccccttat tgccccatctt tatctaacgt atgatggtga atatctaaat 300
 tgatctttga agtatgacac acgtactata tatgtaaaat ataaaattaa ataagttttt 360
 gtcactttgt cat 373

<210> 29740
 <211> 421
 <212> DNA
 <213> Glycine max

<400> 29740

agcttcttga gtatgtgtgc acattctatt cgaaagctgg aaactatgca ttctgagtaa 60
 gaatagcatc agcataatct gtcgacttaa tttgtagaag caatgggttaa gatcataagg 120
 tagtacatcg tattttattg gattcgggtg aggatgtaga tatgcaaatt aggttcctaaa 180
 ttattctacc cctcttcaat ttgtagttat atgttcatta gttaaactca ttggagaaaag 240
 cgattcatgc agcacaatc tggcacctat tcttctcctt agataaacat gcagtgatat 300
 ataaaacatc gtgcattata attctatctg aacatgtatg ttgagatact atggagactc 360
 ttgactttct agttcgaagt gtgatgggat tctctgaaga tgggaaatat attatatcat 420
 g 421

<210> 29741
 <211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29741

tcacagatct tntgtgttct tcacattcca cccaaagatt atgtttgctc attttgaggt 60
 ctttataatg tttgtctgct tgtgcacatt ctctctgtag atcatgtctt tcttcttttt 120
 cataatcatg aagttcatta agctctgtca gatccttttg aagatctttc agtttgcttt 180
 acaaggcttg aaaagtcttt aacagatctt tcttggcca ttatctcatt ctcaagacat 240
 agcttggaact ctttctccta agagtccaca ggctttacat gtctgagtgg actcatctgg 300
 tgatacatct acttggtctt gaaggggttt ctacgtcta aaatgatctt tgaatagt 358

<210> 29742

<211> 500
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29742

nggggnnggc tggcttgatg actcgcaacc tgcccggcac gggagcctgt acaccgggac 60
 tgtatgcatg caagctgcag ccttcgactt ctgccacatt ttctatgcat aggcgataag 120
 agaacggata acatgttcac ccctctgggt gatttgagat cacttggagg gagtgaaaaa 180
 catcatctcc gtgaagaaaa ctccaggccg aggcgctttc ataacgttta ctgagcattt 240
 gcgcttggga atgcgtgaag attctcaacc attgcttaac gttcttcggt cgcgctttcg 300
 tcttcaaccg gtaagtccgc gcgaatcgaa cgtttcgatt gacttcatgt tcccttagcg 360
 gcctcatttg atctacgtgc tattatttca agatatctac tgatcgacc actttgggcg 420
 tgcattagcc attaacttaa gtcactgtt tcgactactc tgaacagctt atatggctac 480
 cctggccaat cgtagtggtg 500

<210> 29743
 <211> 534
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29743

cggccgggtgt gacncccttg gaanancnga cnttgatacc ncatgcatct acgcgacacc 60
 ttnnnaaacc tcagctttca tcacgggccc tataataatt aaccgccaag aagtttgctt 120
 atcactccga acttgactag gtataacctt ttgaataaaa tgaacttgtc ccatgggttt 180
 actccaaaag tcaatgcgaa tcaaattcatt ctgcattttt atttctagcc tgccttcata 240
 tgatgcatcg cataagcatc tcttcatggc atcataatga acatatcgtg cctgcatttg 300
 gccggtatca tattccaaca tcacattntg catgagtcac tggctcatca tgcatatgcc 360
 gtcaacatac gttttggtct acaaactgca taccttggtg ttggatatat tcatgatgca 420
 ttcttggttg catatattcc ggaccatgag cccaccatgg tgggatcata naccctgttc 480
 acttanaaac aaaatgagtg aacatggcac cctatggcat tgtaactan gaan 534

<210> 29744

<211> 313
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29744

cattctgctn gctngtggtg tttctatgga ggctggatct ttgagcttca atgaggtcct 60
 ttaatggtga atttccaccg tggagatgct gcggaagaca aaggacaaga ggtgagaaga 120
 tgcgccatgc actaaggaat aaaccatgga agaaggagct tcaccaccat aagcagcctt 180
 agatatgaag cttggataga ttgcttcattg ggggatatga aagagggaga gaacgacaga 240
 ggggggggagc gcgaatttgg acgaataaat ganggagaga agttgaactt tgacttgagt 300
 ctcacgagac tat 313

<210> 29745
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29745

ttcttaagaa gattcctaaa gatgctagag cttagctaca catatctctc taatagctaa 60
 gctcacctcc ttgagatgag aagctagaac ttagctacac accccctata atagctaagc 120
 tcaccncat gacaaaaaac atgaaaatac caaaaaaag tccttactac aaagactact 180
 caaaatgccc cgaaatacaa gggctaaacc ctatactact agatggcaaa atacaaggcc 240
 caaacgaagg aaaaacctat tctaataattt acaaagataa gcgggcttat acttggccca 300
 tgggctcgan atctacccta aggctcatga gaaccctang gccttccttt ggatctctag 360
 cccaatctac ttggagtctt ct 382

<210> 29746
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29746

attaagcana ggcattcaca ccactannag gggagganag agcggaaatg cttggctctg 60
 atcaacattt agatcccaat attgcatccc aacaactcga aacattatca aagctctaac 120

cagtagttat tggatgctag tatctatcat tgccagaata atgtagtaat caacatgtat 180
atgataataa tatacaatat ctactttaag ctagcacact tgccgcaact aacacaagtg 240
actctgaggt gagtaagctt gactagaact acaaattatg aatattttct atatctaaac 300
aacatgtatc atttattgga tataattatg ttcagatcaa atgggattag aacaccagtg 360
acaaaactct ccttatg 377

<210> 29747
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29747

cttccatcat cntttttcaa tggaaatatg cttgagtcta aggagattgt tcngtgtcaa 60
cggtggtaac ctcgactagt gtaagagttg taagtttgtg aggcattgtct agctccccta 120
tcttggacga cttgtgagta tgcttcttct gacaagttgt attgagagga catgtgtttt 180
gatcttgaag catagatata cgtgtcangt ggatgatgtg cttatatatg acaattcagc 240
cctttgatga tcattggagg atgcattgat cacgaatgta tcgctctgtc tataactaca 300
tgcgagtgca acacacacat attactctag catcatgtct actcatgaca tgggtgttga 360
ctagatatgc attactcggg cgtgtggagc tgcattcatct nttatagg 408

<210> 29748
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29748

cccattatat gtggtactag gaggcggtct gtcgattgtg cacaacagac ttacacatg 60
caccaatcgc gcataaacct accataccct gttgccacc tacaactgag ctcaagtact 120
cccacgtagc ccatatactc gtttctctca acaccgggtg ctcatcaatc ctcccagct 180
agcccaacat ccaagtaatt caacattcaa acaacacaaa ctatcacagc gcagataaca 240
gggcagaggc taaaaactct gcccaaacac caaccaaact cacagctttt ctcaactaaa 300
gacccagta acaattcctt cattccagtt cgttaaccgt tggatcgact canatgtttc 360

actggaagtc tgtagtacat agacctagca ttgaccggt gcgatctagc attaaacacg 420
cacaacgcat tctgcatcac tc 442

<210> 29749
<211> 370
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29749

agcttatgcy tatactccac gaacgttcac ttgcacaaga cattcttata actaagaaaa 60
atgcacccat atacaatcaa ggcaccttcg ttacctagat tattttacatg tactttccaag 120
gtgtatttgt tacctatata acacacattt cctttgctaa attcacatac atgcatactc 180
taagcacttt ggctatcaaa aattgcatac gtgcacatcc tgggtatttct aataacctata 240
catacacaaa cttcatgatg aatcttgact atctacacaa taagggtgcta catttcatgc 300
tttntctttt tcaagtgttt ttactaccta nagccgcatg caaattcaag tatattntct 360
tttgctcact 370

<210> 29750
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29750

agatgagcag cagtaggtga cttgtaggga agtcttttgt cggagctcgc gcagccgatg 60
tgataacggt ggaatttatt ttgggggaga gttgtgtttt gttatgaact cttccttagt 120
tggctccttg aatctttctg attgggcata ntaactctaa gtttagatat atgtaaaaaa 180
atctgaatta tgttctgaca tttgaaagat gagtagtggg ggaatatata tatatatata 240
tatatatata tatatatata agcatgtatt tgctcacgtg tttgtgagtt gttggatgaa 300
tgtacatcac acaannatta ccatcgttnt cacaatcaaa ttaatgggag tttcacttat 360
aaattgaaat gtcacatttt tatagtagtg attgtagcga caagacgggt cgttacagtg 420
gcac 424

<210> 29751
 <211> 274
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29751

agctnttcca tttcttacgg taaaatctgn gacctagcca tggtagaaat ctccacagag 60
 gccattgcct cctcgcacca gtattatgat cagccgttga ggtgcttcac ttttggggac 120
 ttccaactat cacccatggt ggaagagttt gaagatattc tgggatgccc actgggagga 180
 aggaagccat atctttcttc tgggttctat cctccatga caagagttgc caaggtagtg 240
 aatatctcag cacacgaagt tgaccgtgta aagc 274

<210> 29752
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 29752

accttgaatt aatacctttg atagcacttt tgagccttgc ttccttttcc ttggtatgaa 60
 gctcactaca agccttaagt gataaaccct gatattacca tacccttaag gaattttgga 120
 gctttggaat ggatttggga ataagtgtgg ggggtttttg tttcattgga caacttgttt 180
 tgttggctat gcttcatgat gtattttgcg ccatacttga tgtatattgc atattggtta 240
 aatgctggac atgctgaatg aaatgttggt tcctaaaggc taaagagt 288

<210> 29753
 <211> 372
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29753

agcttggtcg ttttgctgat atttatcatg cacactnttc tgatgatgac cgaggaacaa 60
 ttagggatca acttgaaact tatgtgcttc aagtgagaag aaatgcttct ttttccactt 120
 gtgaagatgt tcaaagtttg gctatgaaga tggttcanac tgagaaacat ttggtatttc 180
 cattggttta taaacttatt gagctagctt tgatattgcc ggtgtcgaca gcatccgttg 240
 aaagagcttt ttcagcaatg aagattatca agtctaaatt gcgcaataag atcaacgatg 300

<210> 29756
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29756

tatggtacac gacaatntat gagttgataa attgtattac actatattata catagattat 60
 ttactatttg aataatttga ttttttttta aaccagattc catgcaacca tataacaatca 120
 tgccagtaat ttatgcacaa ttgtcaaaaa ccaatcgtac aggaaaaaaa actattcatt 180
 ctgagcaagc catgcctcaa ttattatttt ttcatgtcaa atcagataaa aaatagcttt 240
 taattttgca taaacaatta tgtgagcaac actactcttc tcataatata aatatttgat 300
 tntggttgcc catagaccat aggttttaag gcttgaggg agcagaatgt gtcagcttca 360
 gatcagcagg aagcaagttc actattttgt tntacttatt ggaacagaaa ggtatgtgtn 420
 tgatgggcca catgggtccc tctgtatctt gat 453

<210> 29757
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29757

catgcaagct tccttttctt cctctgtctc attgtactgn gccgaatggt atgtaatggt 60
 ttcttctaac ctcccctcta ctctctctct aattactttc tccacctttt ggtaaataaa 120
 ttttaaggaat tttctttgat gaattcaacg ctccacgact aatttaccac cctaatttaa 180
 agtattcatc atacaatttg ttactcattt ttctgcaatc tattattaca agagtctatc 240
 atgaaataat tgtgctttta aatgaatttg actaatctaa ttcccaagta ctgcactgat 300
 ggactatatg atgttggaac tcatgaggtg ggaattttag aattgcacct gaatagaaaa 360
 gcatga 366

<210> 29758
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 29758

catgcagtag aatcgtttca gataacttaa aaccaatcca atatggaagg gcgtttgctt 60
atattaataa cgagatgaat tggattaaaa aaatatattc atcaatattg gtgtgaagca 120
tgtaaattatt gaaatgatat ataactaaag aatgagaatc ttttggtatg tacaaaaaga 180
aaggagataa ggaaaaaaga aaacaaaaga caaacgaggt ggaggactgt aaacggaaat 240
gagcggagtg ccaaataaca tttgtgngg cacgatcaga aattntaatc cattgaaact 300
gatttctttt cttntctga ggaggagggg aatggaaaaa agaaatatga gtagccaaca 360
cagaatcana cttgtccctt annattttta ggggataatg ccatgacaga ttttaattntt 420
ctatttttgt catgaaatcc ttcacatcaa taattgatgt attatttgaa ataa 474

<210> 29759

<211> 390

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29759

agcttttggt catatatata ctccatgttt attttgagtg taacattaat gtgcatttat 60
tgcctaacta attaatactc cagattaagc aagtcttcat gtaattaatc atgtattgag 120
cataagcaat tatcgactga ttaccacac aattctagcc acactatatt tgattcttat 180
atggcccaat taatttatag actgagttgt catttacttg cagatattct cagatctgaa 240
agctcagatc ttgtcatcac agcgtatttt cttctcactc taacttcana gtcgggctat 300
aaatttttaa ttctctgttg tttatctgga tacagatcag atatcgngga tatatgctga 360
gagaattcac ctctcatttt cacacatgac 390

<210> 29760

<211> 459

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29760

atagcttgct ataaactcac acaactgact tagagaantt aaattttgta attgtagtta 60
aatagaaaga cccaattgaa aactaacata agtttaagaa cccaattaaa aaaattcaga 120

tacttaatta aaataattgg tccctccaaa ttataatddd ttagtccctc aatctcaaaa 180
aaataatddd ttagtctctt ctgacttatt ttttgcaatt tggatgaaca cttgggggtga 240
tttttaacca taggagggat tataaaacac attntccaaa tttgatgagt taaaataatg 300
taaactttat tttgagaaat aaaaatacaa tgtccccaaa ttttaagagat aaaaaatatt 360
taaantnaat aaaaaataat caaatagttt caaaatctgc aaaataattd aacctanaat 420
aaagacatca ttatcttatc cccdttdgtt tttcactcg 459

<210> 29761
<211> 400
<212> DNA
<213> Glycine max

<400> 29761

agcttgccac acttagcaga agagcttatt tcctatgtaa gacattcctt ccaactcactt 60
ctacacatgc tcccttgctc ttcatagaca ttctccttct cttcttctc acctcactat 120
aataaccaga aatagaaaca gataataatg cacacagtat aaaaaaaaaat acaacgagaa 180
acaaagatga aacaaatgca aaaaaaaaaa gaagcaaact ttacagcttc tgtggcagcc 240
agccactacc ttgttcgttg ggggcaaaag aggaagaaga cccactaagg cccccgcctc 300
tttaaatacac aaacgaaatt cagaacaaca cttataagtt ataacaacca aaaacggctg 360
gtgtgaagta tgaaacaaat ttataagtca aatctatgga 400

<210> 29762
<211> 465
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29762

gtcctttaat ttcacaatta tgttatgcc ncttatagtg accttaaact gttggacgta 60
taagattctt atatttacca atagttcact ttgcctaata actttgcaca cacgcataga 120
aatcagtatt tccaaagtcc taaaattdgt gattgcaata ttaattdtta atgctcttdt 180
tcagggaat atcagcatgg tatgagaatc gtcattgggt taacacttda tgcaagacag 240
tgatggagca agactggtct tggaatcgcc ctgcacttda ttatctggag ctttaccatg 300
ctgcacgtaa gtcagcatga gatttaatag acatgaatta agtttcatcc tcttdgtaca 360

catntttgtg gtaagcttca gtttgaacac acttgattgc atctggtgaa tctttcaaaa 420
agataacaac tacgaggtga anagccataa aagatgatga gcttc 465

<210> 29763
<211> 423
<212> DNA
<213> Glycine max

<400> 29763

agcttctttc gattaatgaa gatgataata ttacatgtta ataagttgac agttttaagt 60
gtcttgatgg cttgtggcac aattaagtct ttgctatttg gaagagaagt tcatgcacag 120
atgattaataa gtgatatcca taccaacata tatgtaggaa gcactctggt atggttctat 180
tgcaaagtga aagaatactc ctatgctttc aagggtgctcc aatatatgcc tttcacggat 240
gttgcttcat ggactgccat tatctctggt tgtgccaggc tcgggcttga acatgaggct 300
ctggagtctt tgcaggaaat gatggaagaa ggcgtgttgc ctaattccta tacttactcg 360
tcagccttga aagctcgtgc agaactggaa gctccaattc atggaaacgt aattcattcc 420
tac 423

<210> 29764
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29764

aactgaaatt tctttatcan aattacatat ttataatact taacagatga taagtaatat 60
taatcatatt tttttcattt gtaaaaaatt aaactcacat attaaaagat ttacaatttt 120
caaatacagt gttcaattaa taaagttaaa cccgttaatg ataattaagt gtagatagaa 180
tgatttcata tattttattct gtcaaaaagt ttttattgaa tataaaaaatt ataacataag 240
gattatgttt caaacaactt tnttctcttt taagatgttt tcatactttt ttactagtta 300
aaaatgatnt tatntttttt atncaaacia aattaatgaa ctcaagccac tttttacaaa 360
cttactccga caattttttt taattataat ctatataaca ataattattca ttatcatata 420
actaatatta aatatttaat t 441

<210> 29765
 <211> 278
 <212> DNA
 <213> Glycine max

<400> 29765

tctttctcaa tccaaggaag tatgcattgg aattgcttga agacagtggg ttattggcta 60
 ctaagcctag gacaactccc ttgattgct tcttgaagct tcatgaccgt gactcacccc 120
 cttatgaaga tgaaacagcc tatatgagac ttgttggcag acttttatat ttaactacaa 180
 ccaggcctaa cattgctttc attgttcagc aacttagtca attcatctct cagacattac 240
 aagttcatca ctcagcagca attatagtcc tcaatata 278

<210> 29766
 <211> 307
 <212> DNA
 <213> Glycine max

<400> 29766

cacgttagtt gagtcacaca atcaaattctc tcacagcact cttaccaaatt ttacctaata 60
 tttaggtact gaacataact tacattaagc ctctgctatt ttactattgc tggtcattaa 120
 aataatttaa gagaaatcat agtaaatctt aacaagtga aatatttata tggtatgaac 180
 caattaagaa ttataatata tataatcttt aagataagtt ttaattatag ctttgatccc 240
 taattaatat ttaattgttg gatttaattt ttgtatttaa ttctataata aatatttctt 300
 ttacgac 307

<210> 29767
 <211> 320
 <212> DNA
 <213> Glycine max

<400> 29767

tcatagacgt tcaccttctc gtcttcctta acgcactgca atcaccagaa atagaagcag 60
 acaataaagc acacggaatc aaaactcgat acgccgagaa acacagatga aagagcggca 120
 tctctatcag gaccgcccct ttgcacagtc ggaggaagcc acacgctccc tagatcgatg 180
 ggggcacaaag aggaggatga ccactaagg cccgcagctc gctgaatttg atgcgatact 240

cagaaccgca ctgtaatagt aaaccagcca gacacgagat gtgcgagaat gagacacatt 300
tattagtcaa tctatggagg 320

<210> 29768
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29768

gcaatctata ttacgctcaa tcctatacca taaacnctcg acctgatcgg atatcataaa 60
aggacaccta gacganatca agactacnct ccactcgatc agatctagat ggaaccctct 120
ctagattcca ttacatctac ataaatcaga tttgcttaaa ttgtctgctc tcttcccgt 180
caagcccaat tacttataat actcctggag taaattaaaa acacagagtt agtcccatag 240
gccccaacgc ataaacctgc taactaattc gacaatcaac actaatccag cattaataatg 300
gcgcccacag gggtacaaat aagacacaat aatggccctc actttggcga agcgctccaa 360
acacactttg tgaccattg tgcttcattc caaatatcag gcttgcttgt ttaccattca 420
actatcactt cttgatgaat gtgatgt 447

<210> 29769
<211> 235
<212> DNA
<213> Glycine max

<400> 29769

tcaagcttat gccatccctt atgatataac taaactcgtc cgaacgaact tagatatata 60
tatgcacatc cattggacat tctcttaatg cagcacggac gtctatgttt gttcctgatg 120
aaaatccaat ggaccatgca cacgatggga actttgggag taagagaaac aaagactgat 180
catatgcaaa gacacatgaa ggataactaa cataagtcag ttctttatat acact 235

<210> 29770
<211> 441
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29770

tggataggaa ctttgacggg tagagagttc attgngtaga agtatgatca agagatatta 60
 aggatgttgg ctcagggatg taaattctga aattgtttaa tacgacttta ccaggggaaga 120
 tggatgttag tggagaatca gtctatgtgg tatagggttc tgcgatggga agttgcatta 180
 gaagactcan agttcatctt ggtggaagtg agctacatgt ggggtggttgt gactcttgat 240
 tttattgaga ctgtgaagaa agcagttgga gatggaagga gactccgttt tggttggagc 300
 catgggttgg gagagaggct ttggagggtc attatagatg actcttttca tcttacttgc 360
 ttatctgatt ctaaggtggc tgaaacttcg gtgagaggag atggagactg gtgttggaat 420
 tgggtggaaga gggatctttt g 441

<210> 29771
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29771

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 tttgatcatc ctactangac gactgagaaa actggggcaa ataaagaggg tgaggatgag 120
 ggagaaaccc atgctgtgac tgccattcct gtacggccaa gtttcccacc anaccaaca 180
 atgtcattac tcagtcaata acaaacctcc tctttaccca ccaccagtt atccacaaag 240
 gccatcccta tatcaaccac aaagcctatc tatcgactt ccaatgacga acaccacctt 300
 tggcacanac cacaaaaaca ccaacaaaaa ggaattttgc agcanaaagc ctgtanggtt 360
 caccacacat tccgctgtca tatgctaaac ttgateccat atccactcaa taattcaatg 420
 gg 422

<210> 29772
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29772

tctcgatata ttatgcacat gtatcggacc tncgagtgac aagttatggc catttgaatt 60
 ntccgagagc ttccgctgct caatttcgag cgtctcgata tattatactc ctgaatcgga 120

cctccgagtg aaaaggtaa accatttgaa tctctcgaga gcttacgatg ttcaattttg 180
 agcgtctcga tatattatgc gctgactcg gacctccgag tggcaagtta tgaacatttg 240
 aatttctcga gagcttccgg tgctcaattt cgagcgtctc gatataattat actcctgaat 300
 cggacctccg agtgaaaagt tatgaccatt tgaatttctc gagatcttcc gttgctcaat 360
 ttcgagcgtc tctatatgtg atgcgcctga atcggacctc cgagtcacaa gttatgacca 420
 t 421

<210> 29773
 <211> 489
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29773

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 ctctgagtcg acctgcttta tgcaagcttg attctcttta aattgncaaa caatcagctc 120
 tggggggccat cgccacagtt tggatcattc cataagaatc cttcaagcct ttgtacgcac 180
 tcaaggcttt gtgggaagcc tttgaacact acttgagaag aacatcctga tgatgatgat 240
 cctacgaaag aacaatacca ccatgatatt gtttatgaaa ccatagtaac tatactggta 300
 gttagatctg caagttctat aggactaact gtattactcg ttatcaacag atgtgggaaa 360
 tgacgagtat taatatgatg cttgcgaggg atcgcgatgg aactaatanc aaattattct 420
 aatgtcaaga acggcagtg tactgtctaa aaaacatcgg tgcttgtttg tagtgatgca 480
 acgtacacg 489

<210> 29774
 <211> 546
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29774

acgacacggg cgtgatcncc actccgatnt anctgacgct aganaacact ttgatcccc 60
 ttagctatnn ccgngacact ataaaaanact caagcttgta gcatggctgt acatgatata 120
 tgtcacagtg ttcgcttgcg tctatggcac aaggataaag ggcgctgtcc acattatttc 180

catgacacac catgccacac tgatgattct ggatattctc ttgcaaaacg tggatcatgca 240
 tgcaccccat gtggacactc aatcataaag tttctatggc catgtgacac tacggctcac 300
 gattcattat ttcctaatac aggcaaccca atatctctca aatatgcttc tttatcaatt 360
 catgcattca tcccagtcca tttgcgtggt cacgaaaatt ctacagcact tacccttcag 420
 gtgcatacac atttttcttc aaaaactggt gttttgatcg gtgaatcttt ctacaagaca 480
 gggcggacgt tatttctttc aaaagcatgt gcctttcacg ccaagacata tctttgcgtt 540
 tttctc 546

<210> 29775
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29775

agcttattac ctcaaatng nnnctctnga acatagggtga gttgtaatca gcttttacgt 60
 ttggaatgag attcataatg aagaaatcaa ctacaatttt gcataagcca aagggttaaag 120
 cagagagaat gtcccaaaaa agtagtcaaa tgctagaatc tccctagggtc ttcgctagct 180
 caagagattc cttcaccaac gtctaaataa agtttccact agaaaggaaa ccgtcaacta 240
 gtttctttcc tttcaaaaga gtacgtgcaa tatctgatag tgacacaatt gctgtgcgac 300
 taccctttct caatacaact ccacaccatc aaattatatg caagacaaaa atgagaggta 360
 atacgccaca attaacttaa catatcatta aata 394

<210> 29776
 <211> 421
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29776

agcttggttac ttatggtaaa cccacctcca caaaagacta cgtacataaa gaaatggngg 60
 tgaacttaag gattaattga gacaaattga aattgggatg cctatgtaca cacacaaaaa 120
 aaaaaagatt tagtttaaga aattattaga acgaaattaa agttatagat atttatttgt 180
 aaaagaataa agtttgagca tcttttttaa caagtacact tccgtatact gtccttaga 240

caaatcaata cataaggata ataattatga gtcatttccg aaaactgtga gtattttcgt 300
 ttatttatat tggattaagg ggattcacat ggtacaaatc agatacgtag tctcttgtaa 360
 aaacccaaca agttttcctg tcatctaata tgcatacact tgtaattat gtattgttac 420
 a 421

<210> 29777
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29777

tattactnta ttacgtgtnt gagaatatat atgcgaagta ctatttattg taaggaaata 60
 catatgggtgc atgatatatt gtgaaatgct attagaatgc aaagaaaata tatacgaagc 120
 actatatatt attaaaaaaaa gtaccaaact acaatctata tatataaaaa aagactatgc 180
 caaagntatt actaatttat tactttctct taagaaatta aaaggaaaaa aataatatga 240
 aaattataga taagcagaan aaaaaatcat aaataataca attttataca ttccaataaa 300
 aaatcatggg ttagcattnt tcttcataga aagcgtatt ttttttggtg attattaaaa 360
 agaaagaaaa gatattaatt taaagaatgt taaactatgt aagtgtatt aagaggatct 420
 aatttaatta gttaagtatg ataggtgagt gttataaatc tctttatatt ata 473

<210> 29778
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29778

agcttcataa agttggcttg tgaagttccg gcgggtgtcc tcacctcgaa tgcttagaaa 60
 acatcatatt ttttagttga cagcatagaa aaagagttag acgaagaagc aacagcacta 120
 atcatttggt gctcaactgt tatgaattcc tagtgctcca cctacaatga ttataacact 180
 aaactcgaag aaatgaaaaa ggctntaaca tttcatntg ttcttgacac ttgtctgcaa 240
 cactgttcat acaggacatg caggataaca ttgttcanac agaattgggg tcaaataagg 300
 ttgggacacg tggacaaggg ggagttaaag ctgaagagtg tatttgacg tgggtggtga 360

ggtaaggggt tggcaatttg ttgcttttagt atctaagaga ggagagagag aatct 415

<210> 29779
<211> 485
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29779

cactaagctt gcgtttggt acaacttaac taacttctta ttgaacaagt gtttatcata 60
tctcatataa acgcttggtg ataagcgctt tttataattg aagtggaaag aagtaaagtt 120
aaactgggtt catataagct ataagttggt ttcctaaact atcttgaaga gcttatngaa 180
ataaacagaa aacagctaata aagcatatct taaacactgg tttcataagc tntctcanac 240
actaacacaa agttcatgag agtaatatat gtccttctta caaattcttt actgcttaata 300
tcctataagc tcatgtgcat gataagttca caagggattg attaactctgt ttacctaaat 360
gtcacagggg ggtcatgatt agggatatnta tacatcagta taatcatacc taataaataa 420
ctatattata agtgggtatt ataattataa ccataacttt ggtttttaaat atgggtatat 480
aacta 485

<210> 29780
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29780

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gcagtttgac attgtctaac aatcactatg tacaactgga atatattggt cttttaaatt 120
tttataattg aggatggatg agcttgacat aacaatggta aggttattgc cttgtgattt 180
ggagctcaca atttcaaatac attgaaacaa tctctctgct tgtagggata tatctgtgta 240
catctatcta cctcctccag gttccactag gttggagcct catgcattgn gtcaccgtta 300
atttctatta ttattgntat tcctgcatcc ttcttttata tgcaatgcta tccttaattc 360
aaataaggtg gatttcagag ttacaaaagg aatcagacaa atgtttgaag agttctg 417

<210> 29781

<211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29781

gcgtagccca ccatcttttc atagtagaat agcgataatg tgtctaccat cagcattatt 60
 atctcccttt ccatcattgg gggtagcact tgggctgcca gatccttcca cctttgggcg 120
 tattctttga aagatctgtg cccttttttg cacatgttcc gtagttgcat cctatccgaa 180
 gacattatac tgacactgcc taacgaaggc aaccattagg tccttccaag aatgaactcg 240
 agaaggttcc aagttagtgt accaggtaac agctgccccca gtaagacttt cttggaagga 300
 atgtatcagc aatttctcat cttttgcgta tgccncatc ttccgacaat acatctttag 360
 atggttcttg gggcaagtaa gt 382

<210> 29782
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29782

agcttgcttg tggggcttct atggtgtctg gatctttgag cttcaatgag gtcctttaat 60
 ggtgactttc caccatgaag atgcagcggg agacaaagga gaagaggtga gaggaggcgc 120
 catccacttg ggaataagcc atagaagaag gagcttcacc ataaagatga gccttgata 180
 agaagcttgg agaggatgct tcaatggagg aaaagaaaga gggagagaaa gagagagggg 240
 gggagcacga aattgaagga ataaaagagg gagagaagtg gaactttgaa gtatgtctca 300
 caagactctc attcatcana gttataacaa gtgttacaca tgcttctatt tatagactag 360
 gtagcttctt tgagaagctt tcttgagaaa acttccttga gatgcttctt tgagaaaaac 420

<210> 29783
 <211> 482
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29783

agcttccaga attatgacct catcaaacta cttgtttccc gagggaaatt ctataaatag 60

acctcccatc ttttatggag tgggttacca ctattggaaa acccgcatgc aaatctttat 120
agaggcaata gatttaaata tttgggaagc catagaacaa ggaccttatg ttccctctat 180
agtggccgga agtgcaacaa tagaaaaacc tagagcagat tggactgagg aagaaagaag 240
attagtacaa tataacttaa aggccaaaaa tattattaca tctaccctan gaatagatga 300
atacttttagg gtttcaaaat tgaaaagtgc taaggatatg tgggataccc tacaagtaac 360
acatgaaggc acaacaaatg ttaaaagatc taggataaac acattaactc gtgaatatga 420
actggttagg atgaatgtaa atgaaagtat acaagacatg caaaagaagt tcacacacat 480
ag 482

<210> 29784
<211> 431
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29784

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aaacatagaa aaaggcctca attcatggtt caagcttgag gtttcttaaa ctagcacaaa 120
cagtacctaa aacaaaacta tctactgcacc aaaagagatt tgacatgcc caccaacata 180
ttcacggat attctagtta actctaaaag ttgtgagacc aaacattttg gacggaagac 240
atctganact aaaatactgt aaaagggcat gaacctgttc taaaggaata aatcacacca 300
actgttcaaa gacaggacat gtctaacttc cagcaagtag atttttagag attntaaata 360
tcctttcaag ctaatttcct acctntact agttacaaat aagagaatgg cttgattcaa 420
tcctgtaca t 431

<210> 29785
<211> 312
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 29785

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ctgtatttca tcttngcatt tgggttacag ttatgcagtt agaacatctg gcctttatat 120

ctcaaattct attgaatata tcccagtgaa taagggatat gcggatatca atgactgatt 180
 tttctgcttc tctattaatt tcccatcttc cttggttgga tattcttcta nggtgggttg 240
 agaatcaatt ctttctctct ttttcagct taagaattaa tactaaggcc ccaaaccaaa 300
 acattctcat tt 312

<210> 29786
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29786

tgncggaacc atggaccgtg ttatggcatg ccacatcaac ggctttcttg ttcctctcct 60
 caaagaagcc ggtgctctct ggctctgaaa agtagacca cccaactaac gctatctaag 120
 tataaataaa caaaaaaat atatatgaga gaggaacaaa acagggttta ttaaacagtg 180
 tttattatta ttattattat cagaggaaag ggatgaagtg gtccttttgt gagtctcttc 240
 ttctttcatt ccattttgga tacactacta ctactactac ttgcagcagc agcagcagca 300
 gcttcttact gactngttaa tcaatcttct ttctttaatt tctttcttcc gagtttcatg 360
 ctctttgtat taatattatt cttcttggtt ttct 394

<210> 29787
 <211> 393
 <212> DNA
 <213> Glycine max
 <400> 29787

ttaagcttca taagttagct tccaacaagt ggtatcagaa cacaagagct tcaagtaggt 60
 gctccttaaa cctccactaa ttttcagctt tactttctcc tccattgatg attcttcggt 120
 tctctccatg tatctcctca cgtgtcttgc gctgaatggt gttaacataa ttttttagaa 180
 gttccaccga ttaagcttgc tatagaagct agatttgatt ttctatgggt caaatcctt 240
 gctcttgatc ttgaaccatg aattgtgttg agtttaggtt cctttgagtg ttatatatgc 300
 aattattgtg gctgaaacct aaaccataaa aatcttacca aaacattaaa gtagaagaag 360
 acctcaaaaa tctagaatga catattcacc tat 393

<210> 29788
 <211> 449
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29788

ntataatgca caccttccat ctatatctta gtatcactct atcatctgca atattcctac 60
 cacatgaaat ctacactata aagtgcacat tctcctcttg ttctcaccaa atagggttatt 120
 agaccagag gtctaagact gactttgtcc acactttata attatttttt atcgtgtttg 180
 tatctttttt gtgtatgcta gatccatgag ccaaggaaca aaacccatt catggacctc 240
 cattgcagat ctactcagat ggaattcggt gaccatgtct catatttctt tgccctctct 300
 tttatgcttt gccgtatncc ttgttctaac catggccaat aaacatcttc aagctgcaac 360
 gaccatgatn tctttgataa ctatataagg aaaatttcta cctcttttgt attgtaaata 420
 actcatttat aataacatta catgataat 449

<210> 29789
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29789

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 atgacaatca agttcaagtg tgttggttat aaccataaag atcaagactg agacaagggtg 120
 atctgaaaga acttctactc tcgaggaaac tgttttttcca acctcatcac taatccttga 180
 ctcaatcatg cgagcatggg gaacgaagta aaaggaaaat gtttggtat gatagcacat 240
 gccaacgcgg tgagataacg gtgtgaatag ccttaaaagg ataaaagtga cgatgatgga 300
 caatcacgtt tagcatcacc tttttggata aaaaaatgca atgattcaac attgttgaaa 360
 ggcagatgga attcgttcta cttgaatcta 390

<210> 29790
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 29790

acactataga aactcaactt gaaccctact tttgaaatgt attattcaag gaaaattctt 60
ctttgaacag caatgaccat caatatgata tttgtaatct tacagagcaa cctgaggatc 120
taaaagggtgg ttcttttgtt ccccatcagc ttgaggcact gaactgggtg cgtaaagtct 180
ggtataagtc caaaaatgtg atacttgctg atgagatggg gcttggaata acaagatctg 240
cttgtgcttt tatttcatca ttgtattttg aattcaaagt ttcacttctt tgctaggtct 300
tggtaccact ttctaccatg cctaattg 328

<210> 29791

<211> 326

<212> DNA

<213> Glycine max

<400> 29791

gaagttcaag tccatagcca tcaaagtctg aacagagtat gatgaactaa gggacgtcaa 60
tatggccaca gctgaagctt tggaacgaga aaccaagaac gcccgaaagg aagaacta 120
ccaaagcata gttctgatgg gctttatagg gcaacaatag tgagcctcaa gctccgaaga 180
ggtgaaagga atcttcacgg gtcaaatgca tgatcttgaa cgacgagcta aagggttgcc 240
ttatgttcaa aagaaatttg cccaacagta agcgagactg aaagaatatg tgggccatca 300
tcgataattc aaagaaagct aaatta 326

<210> 29792

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29792

agcttaggcg ttcagtgagc atctgggaac caacacgaat cagacgtcga gggagacaaa 60
cttgtaagga actttgggtt gcagcttttg cccactagc tattacctag actctgcaac 120
aacggtcaac atcgttgaca ggagcacgta ctactaaat ggtggcccca ctcagtgtgg 180
gttaggtgag gaaatatata aaagggtggt gagactgcaa accagtacga tggggacatg 240
gaggatatta ggaagcaaag cctagcagca taaattcacc atgtagggga ggcaggatct 300
atgctntctg atgaggaggg aganaagatc aacaaaatcg acaagaaaag ggaagaaagg 360

gacacacact agcagacaca t

381

<210> 29793

<211> 451

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29793

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gttgccccc a ttcttctatg tatta aaagt caaaattcat taccgcccac caggtatgat 120

gggcaatggg catgcacagt gtccatgttt caagcacaag gggctcttgc atgtgtggga 180

gttagatata agagttatcc atgtctcttc attcacc aa caatttaagc ttttgggaga 240

gttagt tttat gacaaaatct atctatcttc tgatgtnta taatcatgct gataatgagt 300

catgttgctt acagataccc acttaaaaat ccaacatacc tgagaattcc aacgcattgt 360

ctttggaaaa tgaaatttag caatagtagc aggcaaatct tcagacaaaa cctaataaga 420

gtagaacana tcagcagcaa taaaatgtgt a 451

<210> 29794

<211> 349

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29794

agctntttgg tgtagaaaca tgggaccaac tcattntatt tcagaaagtc gtatctagtc 60

aaagtctgag agaccatata agtttcctag cgatttctaa ttatgtgggc cattaagtct 120

atcatatgct gacaatagcc gagaagccca tgaatttctt cggggg cgga gtaggtgtct 180

gccatcgctt tggccttggc taacaatcgg ggcagttctt gactcccggt caagggaaga 240

gcaaaccgat ccattccacat gggtgcctct tgggtgtaaag agtcgatcac ccttcctcta 300

gcctcttttt ccggtatact cgggcatact cttncgtaac cctatgctc 349

<210> 29795

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 29795

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gtggatggcg cctcctctca cctcttttcc tttgtcttcc gttgcatctc catggtggaa 120
aatcaccatt aaaggacctc attgaagctc aaagatccag cccccattga agccccacaa 180
gcaagtttcc atcacatata tcctatcatc taatgattga cacatgacaa tgaatctatt 240
aaaagttact acaagttctg agaaataaac taacagtggc aaataggatt gatgggaaaa 300
ggatggatgg tactgtcagt ggggggaaag aaaatttggt ggggtggtgt cacaattgtc 360
catcttatta ttagaaagtg ttgttgagca attc 394

<210> 29796
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29796

actaagctta agaaatatgg cctcatcaaa ctacttggtt cccgagggaa attttataaa 60
tagacctccc atctttaatg gagtgggtta ccactactga aaaacccgca tgcaaacttt 120
tatagaggca atagatttaa atatttgga agccatagaa caaggacctt atgttccctc 180
tatagtggcc ggaagtgcaa caatagaaaa acctagagca gattggactg aggaagatag 240
aagattagta caatataatt taaaggccaa aaatattatt acatctgccc tangaataga 300
tgaatacttt anggtttcaa attgtanaag tgctaaggat atgtgggata cactacaagt 360
aacacatgaa ggcacaacag atgttaaaag atctangata aacactntaa ctctggaata 420
tgaactgttt angatgaatg taaatgaaag tatac 455

<210> 29797
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29797

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acataccttc cacatcgggt tggacacagt attgttggcg actgtgtcat cgttttttgg 120
attgtggagg gttatgagtt aagttgggtg aaaaaaatta ggaatgtttt ttatgggtctt 180
ttgttgtaat gttattggga gnttttttcc tagtgttttt tgtagtcct cctggtatat 240
gcgttatagt ttcatagctt gtgatgggtc gaatgctntt ttgggggttat tttgttgctt 300
gtcaattctt ctcgtaatta tcgtctgggg aacaatcgaa tgtgtgaaat ttagttctac 360
acaaattgta aattcac 377

<210> 29798
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29798

tgtgctgaga cctntgaat gtctataatg gagataaaca actcacacaa atgtttctat 60
ctaagttagt tatcgtccaa tgatcacaga gtacacgtat acacatcatg aagttgatca 120
atgttctaga aactgtttat tttcattccc tcataatttt tgaaatgcta atcatttgaa 180
gttcaagtgt atattgagac aggttggcaa aaaggtatat tctctgcaga ctgttgctaa 240
taaaagtagt ggaaagcata atggaaggga taatactant tttacctttc tctctccatc 300
tcaagttgcc atgttgcac attaccagct atgagagAAC anatattttc gtgaaggcac 360
ttaaattcac aacggtcaca tatttctaga tgaccaagcg catcaagaaa caactttngc 420
aatctgt 427

<210> 29799
<211> 224
<212> DNA
<213> Glycine max

<400> 29799

agtccaagga tattaacgag agaagctgta ctttgaagtg agtctcaca agttctcaca 60
tcatatcctt cttaacaatc ttcttggagg actcctattg ctctttttcc ttacgcttgg 120
tctttgaaga caaggtctta ctatccttct ttttcttttg catttctagt gtttcttct 180
tatecctctt agtcttcata gatagctgat ctttgaccat ctgt 224

<210> 29800
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 29800

ttatagaact tttcctttct aaatatgata aaggaaactc attactaggc ctatacttac 60
 aaagcctata ttttgtgtct acaagggtccg ccataattaa tacataggat tatgaactca 120
 acataggccc attcttgtca tgcaacatga caacttccac actatgctga ataaccacca 180
 agcaccctca acttatgtgc ctactcacia caacaacaac aacaacactt ggatttcctt 240
 gaagtctgag aaacgacacc ttcgtaccta ccatctcact catggctagt cttaatgac 300
 caagcttcac aatcaacaac aattcacccc atatacacta aaatggtcac taatgctctt 360
 atgagatagc cttctacact ctga 384

<210> 29801
 <211> 238
 <212> DNA
 <213> Glycine max

<400> 29801

ggggaagctc cttttcctgg ctattcccta acggaggcgc ctctctcac ctttttcctt 60
 tggctttcgt gcatctccat ggtggaaaat caccattaaa cgacctcatt gaagctcaaa 120
 gatccagccc ccattgaaac cccacaagca agtttccctc acatatctcc tatcatctaa 180
 tgattgacac atgacaatga atctattaaa agctactaca agttctgaga aataaacc 238

<210> 29802
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29802

agcttattgc tttcgaagag cataatcatt ttgtttggaa gatggtgaca tcaattcaaa 60
 tttttccact ccttcgccgg tgcaaggaaa gcctctaact aaatttcctc tattttcgtg 120
 atgatagtct tgtggttcat agtcataagg agatttcaaa tgtagttgtt tcttacttca 180
 ataacttgtt tcaagctaata aacaattgta atgcttttat gcctattatc aataatattt 240

<210> 29805
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29805

tgcattggatt ataatatatc aactaaacac aattcacaaa gtatttggat atgctatgca 60
 taatttacct gtacacagtc tgcatttacc atacgtgctg tgctatataa tatacagtag 120
 tatttttcgag tcatacaacc caatggtagt gacccaatca attaaggaca agagnttgat 180
 aggacagaaa ggtattgtga caaggacaac gccagaaga caaaaagata tgcactttta 240
 tatgtagtta taatacgata gcttctcttc aagaacttta ctggtaaatg gtattttttt 300
 taagcattaa ctaagttcta attttcta attttctga attacttct tttcctaaca 360
 cattattttt ctggtaatt ttttactttt ttatcaacta actaaaattt tgtttgatta 420
 gtaaag 426

<210> 29806
 <211> 254
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29806

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 atagcatgtg taacacttgt tgtaactttg atgaatgaca gncttatgag acatacttca 120
 aagttccact tttcttcctc ttttattcct tcaattttgt gctcaccct tctctctttc 180
 ttttcatcca ttaagcatc ctcttcaagc ttcgtatcca agcacattct tggaggtgaa 240
 actccttttt ccat 254

<210> 29807
 <211> 350
 <212> DNA
 <213> Glycine max

<400> 29807

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[illegible]

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<223>      unsure at all n locations
<400>      29808
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taagctctga	ttgttctttt	agcagaggag	ccctcaactt	atggtagctc	ggaggattca	180
attgttgacc	gtaatctcca	acagcttcaa	tcatcatctt	aaagccttta	gagcatgcaa	240
cctcgaaagg	aatttcattc	tcacggatga	attgggcaat	gcatcgatta	gctttagccc	300
ttgctntttt	aataactagca	tcctttatac	atgttttctt	cttggccatt	ccaagagtga	360
gttngtttga	tagttcaata	attctcagcg	tattcatatg	tccat		405

<210>	29809
<211>	474
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      29809
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ctcaaagaag	cttctcaagg	aaagtttctc	aagaaagctt	ctaaaggaag	ctacctagtc	180
tataaataga	agcatgtgta	acacttatcg	gtactttgat	gaatgagagt	cttgtgagac	240
atacttcata	gttcacttc	tctccctctt	ttattccttc	aatntcgtgc	tccccctctc	300
tctgtctctg	cctctttctt	ttactccatt	gaagcattct	ctccaagctt	cttatccaag	360

gctcatcttg gtggtgaagc tccttcttcc atggcttatt ccttagtgga tggcgctcc 420
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<210> 29810
<211> 152
<212> DNA
<213> Glycine max

<400> 29810

gctacaccct tttagtgc atgtctagaca atggatccat tcatacagca cacatgacaa 60
aacaacattt atcaacactt atccaccaac tataagtctg gacaaatata ttaatctgtg 120
tgggctgaat gagaagattg tcaacatgtc ca 152

<210> 29811
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29811

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aatatgatca ccacctgaa tctctagcag tcttctacac ttatcttcat aaggattatg 120
tgtactatgt gaagttttta tgctatcttg aatcaactta atcctctctt cggtttggtg 180
caagaatctt ggggccccac gaccatattt gcaccatctt ggtaacaaca aaggggtggt 240
ctacacctcc taccatataa agtttcaa atgtgtcatgc caatgctaga atgaaagctg 300
ctgttgtagc tgaattccac caaagggcaa acctgatcct atctacctag atgatccac 360
acacatgctg gcaaattattg tctaatact atatcgtcct ctcggatt 408

<210> 29812
<211> 325
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29812

ngcacaacaa gnttctaaat ctatctttgt acaaaatgaa gcattctaata aactaactaa 60
ctaactaact ccaactaatat atccagtaac tactcagaaa gaaaggatgg acttaatcga 120

ttaagcccat ctaatctacc taattaaact aattacacaa agcaaaaccc aaattcgcag 180
 cccaattatt gaactgcaat gattcttagc tccaagccca atttgaccgc cgaaatggca 240
 aaatgtccaa gcttatctgc gaaagataat acaaaatcga atccattctt ctgatcttcc 300
 caagaactac tcacatgctc cattc 325

<210> 29813
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29813

taagcttctc attgtttttc ctagtcaata aatataagca tgtgtaacac ttgttgaact 60
 ttgatgaatg aaagtcttat gagatacact tcaaagttcc actcctctcc ctcttttatt 120
 ccttcaattt cgtgctcccc cctctctctt tctctccctc tttcttttcc tgcattgaag 180
 catcctctcc aagcttctta tccaaggctc atctttgtgg tgaagctcct tcttccatgg 240
 cttattccct agtggacgac gcctcctctc acctcttcta ctttttcttc cgctgcactt 300
 ctatggtgga aaatcaccat tgaaggacct cattgaagct canagatcca gcctacatag 360
 aagctccaca agcaagcgtt catcataagt atttattacc tatatttaac t 411

<210> 29814
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29814

tatectataa ctgactaagc tctattggta atcgattgca gtcttgtgta atcgattaca 60
 tcctactgtt ctatggtaat cgattacagg gagtggtaat cgattaccag acctaaatca 120
 aggctttctc tacaaatcta actattgctt actcctaaaa actacatact cattgtatct 180
 tttatctacc acaatcagag atcaataata gactttgaaa aacaagcatt ataaacatct 240
 taactacaac catcaagcac aatcacaagt acaaatatac tcaccaaadc aataatcatc 300
 aaatcataca caaagaanat cattaagccg caatgtacaa ccattatgat tgtcaaaaca 360
 caaacaaga taatcattga caatcattca atcattatga ccatcaaaac acaaacacaa 420

tcataaaaaa agaanatata aattaacaat

450

<210> 29815
<211> 356
<212> DNA
<213> Glycine max

<400> 29815

agctttttct tttgaagaag gagaagtaca agttcacaga tatgttcaaa agttaattgg 60
aaaacttatg tcagagtttt cgaaatgcaa gtcaatgtct tgcttttata gactcttcat 120
gtatgggtcaa gaaaaccatt ggaagagtta taaccttgag aaaaacctga aaaccatagg 180
aagagttaca tcttttgatt attattcaaa acttgctact ggtaatcgat tacctgaacc 240
atgtaatcga ttacacacag cattttatga acatatatga ctcttcacaa ttgattgtga 300
atgtcaacga tcagatacac tggtaatcga ttaccgatat attgtactcg attaca 356

<210> 29816
<211> 433
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29816

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agaatatgta ttcccatata ctgggggatat gttgctggag tttctaacaa agaagcataa 120
agctgggaaa gaagtgatga tttgcccttg atttagtggt gtgcttgata aaactacaac 180
aatggctttc gaagcttcta atttgcaaga attatcagat aattcaagac gttgatgctt 240
aaggggaagg aaagcaaaaa atcaatatga ctgtgagtca agtgcaaaaa ccatacaata 300
tttctcaaag aaggtctaca tatgtctcac atggtggaag tccttcgaat agatggactt 360
gacagggaca tcaacaagta ttgatgataa ccattaagct gaacaattat gtgcctcana 420
gagatggaac tac 433

<210> 29817
<211> 404
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 29817

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 taccaattnt gctagctggt gatgttgcac catagttttg ctatgtcatc tacctttggt 120
 ctcatctctt taccttaciaa ttcaggcaat tctatcatta ccttttttca atatataaa 180
 ttggcaacat gcaaacaat ctaatccagg agattccacc actaatagtc agcctataat 240
 ccataaccaa tgaagtcctc catctccaat ttattccatc ttctaanttt attgtagttt 300
 ctgcagattt aagataagcg ttgggttctt cggntnaaca tanatctatt ngttagttta 360
 taattcacc aattctgcct ttagtcattt tcaacatgca gaac 404

<210> 29818
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 29818
 tagaacaata ttcttgcct tcatttaatt ggctttgtgc ttggttacca cgatcaacaa 60
 agtactttcg gcacctgcta tatgttgact tgaccaacgc tgttatgggt atgctgcgac 120
 aatccttcaa caccttattc acacattctg agagggttgg tgtcatgtga ccatatcttc 180
 gtccagatgt atcataagcc atgtccatt tttcctttga aatgcgatca atccatgttg 240
 ctatggctgg actcaattga tgaaattttt ctaagtcttg atcaaacaca tgcttgcaag 300
 gagtgtacgc tgcataatag ttgtaccat caaaagttgt aggtagatat gaaactaaaa 360
 ttaacttcat gtataacata aaccttacc aatttcttga acat 404

<210> 29819
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29819

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 tacagtggcc aaggatgctt gggagatcct gaaaaccact catgaaggaa cctccaaagt 120
 gaagatgtcc agattgcaac tattggccac aaaattcgaa aatctgaaga tgaaggagga 180

agaatgtatt catgacttcc acatgaacat tcttgaaatt gccaatgctt gcactgcctt 240
 gggagagagg atgacagatg anaagctggt gcgaaagatc ctcagatcct tgcctaagag 300
 atttgacatg anagtcactg caatagagga ggcccaagac atttgcaaca tgagagtaga 360
 tgaactcatt ggttccttcc aaacctttga gctangactc tcggata 407

<210> 29820
 <211> 482
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29820

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 aagatgaagt tgccttcac ctcacagaaga ttcacaagat gtggaaaaac aaaggtgaat 120
 ccagatggaa gaactcctca aaaagcacgc tcaatgaana gaaagataaa gacaaaagct 180
 ctatagtatg ctatgaatgc aagaaacttg gacacttcaa atttgaatgc ccagaacaag 240
 acaagtctca agacaagaag aaatactata agaccaagga aaagaaaggt ctcagagacc 300
 cttgtaaaga tctagatgac acctcatcta atgaagaaga agccaaccta tgtctgatgg 360
 cagatagtct ctgaagaatc taaatcanat caagaggatg aggttaactct taatgatcct 420
 aaatctctta nnaagcttac aatgaactgc tatcaaactt ttccattctt tcacaagctt 480
 ac 482

<210> 29821
 <211> 425
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29821

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 tcccactcca agtaggcctc cggatcattc tttcctttaa atggaggaat gttgagttta 120
 ataccatcaa ttcggttttg tctaggaaca ccatcattcc ctcttctcct cctttcttct 180
 tcattatgat ctctattctc catttgatcc aacctctcat ggagcgcac atctcgttgt 240
 ttcattaacc tctccaaatg ttgcatcaaa gcttgcatctt ggaattgcga aagccccact 300

ccatcattag gattagtacc tgacatctca nacaacaaaa tcanacgtaa caagacaatt 360
 atagttgctg tttgaatacc tcacccactc aagtgtatca cacaattatg gctntttctct 420
 aatga 425

<210> 29822
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29822

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 accatttgaa tttctcgaga gctttcgttg ttcaattttg agcgtctcga tatattatgc 120
 gcctgaatcg gacctccgag ttaaaagtta tgaccatttg aaattcccga gagcttccgt 180
 tgttcaattt cgagtgtctc gatataattat gcgccagaat cagacctccg tgtgaaaagg 240
 tatgaccatt tgaatttctc gagagcttca gttgttcaat ttcgagcgtc tcgatataatt 300
 atgcgcctga atcggacctn cgagtgaaaa gttatgacca tttgaatttc tcgagagctt 360
 ccattgttca atctctagcg tctcgatata ttatgcgcct gaatctgacc tccgtgtgaa 420
 aaagtatgac catntgaact tctcgagagc tttccgttgt caatttcgag c 471

<210> 29823
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 29823

agcttgtaat ctattacaca tatactgtat ttgattacca gagcagatta tcagaatata 60
 ttctcaacag tcacatcttt ttatgtgggt cttgaatggc tatcataggc ctatatatat 120
 gtgacttgag acacgaatat gctaagagtt tttcagaaca aaaaggtctt attctcttat 180
 agagcaaaat cgatttatcc tcttacggat cccttggcca aattacttgt gattcaataa 240
 cgaattattt gagtgctcaa attgttcaat ctatctcttt caagagagac ttctttctttt 300
 cttcttcttc attctaaaaa gggactaaga gaccgatggg ctcttggtgt gaaagaattc 360
 taaaca 366

<210> 29824
 <211> 362
 <212> DNA
 <213> Glycine max

<400> 29824

aactcctacc gctgtcaaaa acctaacaaa ttccgccatt tccggcattg tccgcacccc 60
 ggcacgaccg ccatgactat ggcgggccgc atcccaaacc cgcaacgcca ccgctattcc 120
 gtggcggtttt tttgaaaatc ccccacgaaa aaccgccatg gccgccattt aacaacactg 180
 ggacatgata ttcgattgtg aataagtgga tgtgctaaca cttgatgtac attaattata 240
 ttgcgagcta tgaattatac aataaccga ccagtgttat gcgcagtgtg aagagaaagt 300
 gaagttccta ttaggaaccg gtgtaaatcg agcgcatgtg gtaaacaatgt ctgaacatga 360
 gt 362

<210> 29825
 <211> 420
 <212> DNA
 <213> Glycine max

<400> 29825

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 cctaaacagg cgagctcctg gcagtcaaca gataaaagga acaaagacca caaagcaagg 120
 aggcttgtgg tggctggcca gctgtgaatt ctgtgtgata tatgggttgt ggctctgtgt 180
 aatcgattac caaggggtgg taatcgatta caaggcttaa aaatgaagac aggaggctaa 240
 gatggtctct ggtaatcgat taccaagggg gtgtaatcga ttaccaggct tgaaaatgaa 300
 gtcaggaagc taaggagacc tctggtaatc gattaccagt ctgtgtaatc gattacacag 360
 aggaatgggt cactggtaat cgattaccag gtatgtgtaa tcgattacac agtgcatttt 420

<210> 29826
 <211> 303
 <212> DNA
 <213> Glycine max

<400> 29826

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 cataaaaatg gattttttta atattaattg gttaaaacta tgaaccacct taactattta 120

tgggtcaattt cgagcgtctt gatataattat gcgcctgact cggacttncg tgtgataagt 420
tatgaccatt tgaatntctc gagagcttcc gttgggtcaat ttcaagcttc tcgatatatt 480
atgc 484

<210> 29829
<211> 500
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29829

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cgggatccnt agagtgcct gcggcatgca agctgccgct gtangaatgg cgaaaccacg 120
taaattaaag acccccattg aaatttggtt cgaaacagaa ccttgttcgt aaaatgtttt 180
taaaagaaac cctatacaat aaatttgccc tctaagcaat tgcacatgca gcctttacag 240
caatttcttg gacccttgga tacatctgat ggctgataat aaaatttaca aaatcaaaca 300
catctacttg cttatctcta cgtacgtgtt atatataata aaaaaaaatc cagtttttaa 360
ttattattca taaaatacct taattttagt cattataatn tataanaaaa tattntntaaa 420
ttggttttta gtgtgggtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt 480
gtgtgtgtgt gaggagtg 500

<210> 29830
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29830

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caagtacttc ggatttggtc cgaccatgct ctctgattt ccagctggga aattggcgag 120
tggaggaacg ccccggcatt tacgcaacaa gcataatgta aacctttacg gttttaaaag 180
ctctatagtt gggcctgggc tttagagttt tcattttgtt aaggctttgt gtctttcgtt 240
tttgaattta taatacaagg atctttcttc atctgggtct ggtctctacc cattctcatt 300
catttgcata tctacttctt tctctaaaac ggcagattcg atgacgaagt ccccgaaagta 360

ctaataacctg ggacccgtct atcaacttcg agcaagaaat gagtcaaacg gaagat 416

<210> 29831
<211> 406
<212> DNA
<213> Glycine max

<400> 29831

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tattaacaac ttccgtttgc ccatcggttt gtgggtgaca agtgggtgaa aacaacaatt 120
tagtgcccaa cttgtccac aaagtccctc aaaaatgcaa atcatcaagc ctaggtatag 180
gatgcctata tttaatggtg atgttattaa gggctctaca atcagaacac atgcgccatg 240
tcccatcctt tttagggacc aaaatcactg ggacagcaca aggactcata ctatctctta 300
cccaaccttt gctaataagt tcattccact gtctttgaat ctctttggtt tcttgtgaat 360
tacttctata ggctggccta ttgggcaaag aagctctcgg aatgag 406

<210> 29832
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29832

ntgcgaaagg cttgtcgtg gagctgacct atcaactgcc ctatctctnt cagtactgtg 60
attcctanga tcttgacctt gacttgatag aacctctctt taagcgaaag cgtctgactc 120
gatcccatgt tttactaaag tgaaacaaaa tccagtgcga atcanaactc tgacatctat 180
catgggtgga atggatgaat acatgaagaa atgcatatga cacagatgca ttntatgaat 240
acgggagcnc gggaaattgt ccccttctta gatacaacat tcgggcagca tcgcgcccga 300
cgtatgcatt taagatagca acacggacct tctgtcgggt tgacaaagtg aggggatcaa 360
gacgcaatcc gtggatgatg cagatgcgaa aggacacaac cggngatgca tatagtacga 420
caatatccac anatatagta catg 444

<210> 29833
<211> 397
<212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <400> 29833

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 agagagctgt ctgaaaaagt gtggggctga gtgaagagag agaaaagctt tttggtttta 120
 aataaaaggg ttttctcttt ttctattatt ttatttaagc aatgccacat gtctccattt 180
 gagtggagca aaaagggccc actttccctt tttgactgtg acccatactc agtcacaaaa 240
 gtgaggaaaa tctgaccttt gaaacgctaa aatcctgcct cggtttgctg gctgtttctc 300
 tggttccagt tctctgtgtt tctctgcgtc tgtcanggcc agttttcgaa agtacgcaat 360
 atatatatat canaacgctc agaataaaaac cccgagc 397

<210> 29834
 <211> 368
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29834

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 gntntgggta ctttntatac ccctgggtga cgtgcttaag tcattttact taagtcattt 120
 ctgcgttaac ttaaaaataa aataaatttc caccgaacgt ttgaattgta ttatccgtta 180
 acttcgggta aaatgaattc cgaccgtttg gtcgtgccgt aaccacgttg gaaatcaaaa 240
 agaggtaaaa aaataatata ataataaaaa aaacatcttt tagtaaaata aagcggaaaa 300
 tcaatcggac attntctctt tgggatttct cattcttaat cgaatcgatt aataactaaa 360
 gtgaaact 368

<210> 29835
 <211> 411
 <212> DNA
 <213> Glycine max
 <400> 29835

ttagcttatg acttttatta caagccttta tagagaatgt gggaaacaca aattaaataa 60
 aaaatatata acgacttata aactagatgc atttatcata aaacatcgct atctaccatg 120

ttatatTTTA tataaagagt attaaaaatg cacaattaac tatttaaacc ataagagtaa 180
 cgtaaatacag ttataaaggt gttgacaatt taaaagctga tatatatcag acgaaaccta 240
 tttggtgtat gtatttgga aatttcattc ataatagttc tttgctaaat gcaatcatgt 300
 tagattgtaa agcaaaagga aagaaaaaca ttatttataa aaatatataa gagtcaagct 360
 aaaagacaag tagtgataga tacggaattt tgcaatgaat tacggtataa c 411

<210> 29836
 <211> 161
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29836

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 ttggttatac tgatcagcca agttacggaa cttactata ttctnnnnga tacttggtat 120
 ctttccgtaa tggtagacaa cttgcagat tacattatca t 161

<210> 29837
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29837

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 aaaaatttgt ttaggctaag atgcacatag acaaagctaa caaacatata atctaagctc 120
 actatctttn tctctcaaga tatacaagat attttgagag cttttccagc ttagaaagat 180
 tttgaatgca aaaagaatga aggtatttaa tattgcttag atcaaaattc ataactagag 240
 ctttttggtta tttatagatc ttttcaacag gtaatcattg tgagtaaacg accttctatt 300
 tgtgggtgat gggcatccta tagcaaatgt atgttgggag cattaaatgc gcgtccactc 360
 tgagatgata aatactatgt gtatctttct tgagcaacac ttctctgga 409

<210> 29838
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 29838

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ggaagattgg gtgaggtag ggagtaagaa ctcagctttc tttcatgtc aaactgttgc 120
tagaagaaca agtaataaga ctcattgggtt attccttaat gcgtgtattt gttgcaataa 180
ctgtgatcaa cttcaagctc atgttggtga gttcttcaag aggtgaata gtgttactga 240
aggtaacatt atgcatgtat cccttctct tgccccgatt ctttgtggtc aagactctat 300
ctctttccca ctagatacaa aagaggtgca tatatgctct gcagagcatg aaatcttatg 360
agtctctcac gccagatggg tttagcctct cttctat 397

<210> 29839

<211> 403

<212> DNA

<213> Glycine max

<400> 29839

agcttcaaga tttatggcct catcaaacta cttgtttccc gagggaaatt ctataaatag 60
aactcccatc tttaatggag tgggttacca ctactcgaaa actcgcatgc aaatctttat 120
agaggcaata gatttaaata tttggaagc catagaacaa ggaccttatg ttccctctat 180
aatagccgga agtgcaacga tagaaaaacc tagagcagat tggactgagg aagaaagaag 240
attagtacaa tataatttaa aggccaaaaa tattattaca tctgccttag gaatagatga 300
atactttagg gtttcaaatt gtaaaagtgc taaggatatg tgggatacac tacaagtaac 360
acatgaaggc acaacagatg ttaaaagatc tatgataaac acc 403

<210> 29840

<211> 213

<212> DNA

<213> Glycine max

<400> 29840

ggaatcggac ctcaagtgtga caagatatga ccattttaat atccttatag caaccgctgg 60
acattatcca gtgtctctat atgtgatgag ccttaatcta acatccgtgt gaaaagttat 120
gagcatatgg atatctcaag agcttccgct gaacaatttc gagcctctcg acatattatg 180
cgctgaatc ggacatccgt gtgagaagct atg 213

<210> 29841
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29841

agcttggctt atttcgtgaa gagatatcgc ttagcggata aacaatctaa aaatttttct 60
 tagtcattnt ctgcttatct cttcactcat actttaaaaa ccctttttgt tcattaatac 120
 acaagctgaa ataaatcaca atcatcaaca agatgtccta actacatgca agaaataaaa 180
 ataaagatac agaagggaaa gaaaagctgg gttgcctccc agtaagcgct tctttaacgt 240
 cactagcttg acgcatcatc ctattatcca ggatccatta aagttcccac ttcaagcacc 300
 ttcttctcaa gtcttctttc ctccatcaca tgaactttaa aatagacatt ccagtcaggt 360
 ggctctntat cttcatgaaa tagatcanag ctgattnttt gatcttctat tcccaattgc 420
 aacatc 426

<210> 29842
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29842

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 tttagactaa gtttaactga gtttcatctg tagatccctc atgtaagact agactcagct 120
 caagtagctt actaaagttt agcctaattt agcctaagct tcgtctgcga tgggtgtagtt 180
 tttaggaggg ggtggcttgc ggtggtggcg gnggacagtt ttgatgatga ggggtgaagaa 240
 gctgacgagg aaggcataga caacgagagt gccaaagtgtc tagatgaaga cctagcgact 300
 aacaatgatg cagcccagat atatgtacct tttcttcttc tttntatggt ctcctttgcc 360
 caagagccag ctatgttggg tctcatccaa agcacctcgg tccagctcat ggagattcgg 420
 tggcggagtc tatggtgtga atctcaagca ggcctcccca cagatcccta ctgtgcatac 480
 taatt 485

<210> 29843

<211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29843

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 ttcataagag aagaaagtag cggattccag gtatgcttaa aaaaagacta ttcaagttca 120
 caagtttagt tgtttatctc cttaagattg ggctggtctt cagtttattg aatggatttg 180
 atttttgcaa gatcacacct cgaggaaagg gtagctaaaa gtgcatataa aaaatgccat 240
 gttttttttt tctgttagtc tacaaccaac cacaagtcaa tcgaatgaat tcttcaagca 300
 aagatatcag aaagactaag aaagagatat gcaatttaca acttgttgtc tactttcagg 360
 aaatgttcgg agtagaacac ttacaataat acaacgtcgt gttctccaga gatg 414

<210> 29844
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29844

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 ttgtgcgaaa aaaacgcgac gcagaggtag cggaggctcg acaatgtacc ctcccttttg 120
 caaaactcac ggtggtgcaa gggagattga gctcaatagg agatgccgac tgatagcaca 180
 attttcagat agtgatttct aggtacgtgt gttcaattag cgtgcaaggg ggacatatat 240
 gaaagcatgt taacgacggt gtatntgaaa acccgtcttt gagagtcaat atttctatga 300
 tgggtgtttac aaatacacgg tctttgataa gtcctggcct aaccaacata gatggtgtta 360
 gcaaaaaacg tcgttgtaga catcacgcgc catgcacatt 400

<210> 29845
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29845

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gagggatttg aaccatcttt gtagccaacg tctttgagag ttaagacttt ctacgacagt 120
 ctcaagaaaa accgtattag aaatgaatat cattctaaga tgatttttaa ctacaaacct 180
 tcttagaaga gtactcttct aagacaatta ttcagagAAC cgacttaaag ggatattctt 240
 ctgagacgga tgttatataa gaaccgtctt agaaggtcgt agaagggtac ccttctaaaa 300
 ctgtcttaga atgggaccct tttaagacga ntatctgaag aaccatctta gaatataagt 360
 nttttaaaaa tataatgaca ataagatctt agagctttgt caatatacat tgtgttttta 420
 taatgc 426

<210> 29846
 <211> 206
 <212> DNA
 <213> Glycine max

<400> 29846
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 acacccttgc ttttttgctg atcttttccg aacgtacaga acttacaata cgaacgaagc 120
 tttttccttt gaatgtacgg accttacgat acgaatctcc tttttgcctt cgaatgtaca 180
 attttacgat gccactaaca ctcctt 206

<210> 29847
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 29847
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 tcattttcaa gcacattgca gaatttcaat gaaaagtgac ttgttattac aaatagaaaa 120
 gttatatttt gtttaattac aattcaaaaa tattattcat ttttgaaaag taattacaaa 180
 tatacctttt ttagaagtaa ctcaataaaa cttctcaaaa taatcagaaa tatatttttt 240
 caattttttt ctcaaaatat caaatgaata cattaaatat tttaataata atattttctt 300
 tttcaaatga aaaataactt ttcataaaat ataaattaaa cagacggact tgtaattaga 360
 gatattgtcc gcctttagtt taagcttcag agtcattaat ttatgttcat tatgttc 417

<210> 29848
 <211> 315
 <212> DNA
 <213> Glycine max

<400> 29848

ccattgctac caccaacttt aggttctacg acttcaagct taagaagaat tgggtcagct 60
 atcacttttg tcaagacatc attgacagaa tcaaagtaat gatcaccttt cacaaggttt 120
 gttcttgaaa actttttaac acccaggaaa agaaaggcca ctaaattttt ggagctcaga 180
 gaaccttgat tctttagttt ctccgagttc taaccttttg ccaataagcg aggccaaaca 240
 gcttcctaga agatatcatt acttttggct ttgcacaaat tggtatcccc cagtcaaattg 300
 cttgattata tcaact 315

<210> 29849
 <211> 379
 <212> DNA
 <213> Glycine max

<400> 29849

agcttaagct ccttggtgct tcccttctta gctcctcgga atttgtttcg gccccattct 60
 tcctttcggg cctcttttgt ttctcgttcc aacgcttcgg cggtggccac attgatgtct 120
 cttagtttgt cgcactctct tcagaccttg atggctgtcg tcttgaattt tttcttgacc 180
 gcttggtgcc tttcaagttc cacctttaag gcttgcacct cttcgctctc cttaggggtt 240
 tcagcctctt gctcacttga aacctttatc ttccggagcc aacctaactc ttgcatctga 300
 gcctttattc agttgagata gccgtatgtc gcaacctacc gtattgcggg agggcgacgc 360
 gtgactcgcg ggatgcgtg 379

<210> 29850
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29850

gaatcaacct tgtttgtttg acattgtcaa caaatattga ccatggtgag caagcaattt 60
 caaacttctt aactcatcga acccttgctc agaaggcaat ccacgagact cctccatgct 120

[illegible]

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<223>      unsure at all n locations
<400>      29851
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<210>	29852
<211>	396
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      29852
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12448

<210> 29853
 <211> 390
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29853

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 ctttttataa tttaaagtaaa acatataatg ctaaattatt ttttagttaa gatatccaaa 120
 tatacaaaaa atatattagt tattcaaaaag taagtatgat atgattgtca tattttgtct 180
 ttttattagt ttatttttct catctaaaca caacattagt tttttttttt taaaagcccg 240
 ttagttctat ttaggatgca aataacaaga tcagacaaat aaagtaagtt gaaggaagat 300
 atagagagga tgggattgga atagtagaga aattntgaaa ggttgcaaga ttaatattat 360
 atatttaana tagatggaca gatatcactt 390

<210> 29854
 <211> 444
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29854

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 nacaaaatgc aaggctgcta ctaggtggat tgggtgtaaa gtaagtcatt taaacaatgc 120
 ttctaatttg tattttatta ttgtgtagac taatttgtac ttaacattga atatccaaat 180
 ttcataatgt atctagtgt atagacaaaa aggaatcact gaatgcaggt attacgttat 240
 gcactggatg tcaactataa tcttagtaag tttcaagaat aattgtgaaa agataattgg 300
 ttaattcaca catatnmtca ttttttgtaa ttgatattat atattattaa cttatgtctt 360
 attatatcat gcagtatttc aatgatgcta gaccattaan accagagaga ttgaaggcac 420
 ttgcacatcta gtgggcaaac tact 444

<210> 29855
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 29855

agcttattcg ttgccccttg aattgattgc caagctctgt tcgttcatga atcctccgcc 60
gaattgattg cctaacgctg ttcgtgcatc ctccatcatc aaatcttatt cggagcccca 120
tgaattgatt gccgttcatg catcctcccc attgagtccg gagccatacg aattgactgc 180
caagctctgt tcatgcatcc tttatcatca aatcttattc gaagcccat gaattgattg 240
ccattcatgt atcctccacc attgagtctg gagcccgccg aattgattgc ctagtgttgt 300
tcgtgcatcc tccaccatct tttcgtagc cccatgaatt gattgttgtt cagcgcctct 360
ccaccattga gtccgaagcc ttacgaattg actgccgagc tctgttca 408

<210> 29856

<211> 386

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29856

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caagaactct ggatntggtc cgaccatgcc ctctgattt ccagctggga aattggcggg 120
tgagggaacg ccccggcatt tacacaacaa gcataatgta aacctttacg ggtttaaaag 180
ctctatagtt gggcctaggc tttagagttt tcatttttgt aaggctttgt gtcttttgtc 240
tttgaatnta taatacaaag atctttcttc atctgttctt ggtctctacc cattctcatt 300
catttgcatg tntacttctt tntctgaaac ggcagatccg atgacgagtc ccncgaaggt 360
actaatacct gggaccgctc tatcaa 386

<210> 29857

<211> 382

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29857

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agtacgacag tcaccgcttt atgagcggtt tacaccagca gcgcttcgaa gccatcaagg 120
gatggtcggt tctccgggag cgacgcgtcc agctcaggga cgacgagtat actgattttc 180

aggaggaaat atggcgccgg cggtgggcac cactgggttac tcctatggcc aagtttgatc 240
 cagaaatagt ccttgaattt tatgccaatg cttggccaac agaggagggc gtgcgtgacc 300
 tgagatcctg ngttaggggt cagtggatcc cgttcgatgc cgacgctatc agccagctcc 360
 tgggatatcc gatggtgttg ga 382

<210> 29858
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 29858

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 ggtttgaaaa gtgaaaatga aaatggggta attntggagc aaactctcat ctcaaacaag 120
 tctataacat taatctaaac ttgctcaaac tagttntacg acgaanactt caccgaatca 180
 aaatttgacc cctcaacacc caatttacc tagaaatggc tcttgctttc actttgggtca 240
 ctcatTTTTc tcatttgctc agtccaagct tccccacaag tcctaaatga cattntaaac 300
 taggattaac tcactttaga ctccattta cactaacccc aaatttagct tctctaaccc 360
 tcanaatctc acacttttct acctacaaca ttgtcattct cacatttaac cctaagtaac 420
 tttcccttc atctcta 437

<210> 29859
 <211> 385
 <212> DNA
 <213> Glycine max
 <400> 29859

tatcatgcaa gcttgtgtta tgtctatagc accccacctg acgtcccaa ggtctcctga 60
 ccccgcgac atatctccag gtaccactct gtggtcaaca ataaaagcag gaagtttcac 120
 ccttcaacac ttctcatct caagcttgta ggattatggg gtacccatca catgtggtac 180
 taagtggcag acgggcatg gtgcacaaca tgttttccac atccacaatg cgcgataaa 240
 cccaccatcc gctgttgccc acctgcaact gaactcacgt actccacgt agccatata 300
 ctggtttctc tccacaccgg tccccatcaa tctcccaag ctttcacagc atccgatcag 360
 aacaacattc aaacagcaca agcta 385

<210> 29860
 <211> 432
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29860

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 tgccattcct tggattatan ggttgaacca agctcatgct tttaaaaaa ggctcatcaa 120
 gtcaagttga aatatggaag taaccgtctt gcaaaattgg ggcaaaagat gaatcgagtc 180
 acatcactgc ttcgtctact gccaaacata ttaggatta ttgatgtcct tgttacttcc 240
 agtttcacct tgacaaagat gtcattggacc atgtcgaaaa tctaaattga ttcaacccca 300
 tatcttgcgt aaaaattcgc aatacttcaa ctgtacatca ttcgcatgca tccatgcttt 360
 tcattgggtg cattgctcat tgcattcttt ccttgaaaaa ctacaataaa tataataaaa 420
 tgaacttaat ca 432

<210> 29861
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29861

agcttgcagc ttccataaac aaaaaggaga caagaaagct ntanaaaccc accaagaatt 60
 cataatctac aacaccatca aacccatagc tntaaaatcc ttggttgaaa aaaaaaaaaa 120
 aaagaagcaa tatttacaaa tgacaaagtc aaacatgcat ctaggcacat cacgtacacc 180
 cattcaaaac atagaaacac tagtttttta aaaatattca caaccatgct ttccgtcagc 240
 accgcaacgg tatcacaatt acaattatgg ctacatcggc cgtattaatc tgcaattntc 300
 tataatgtca aaggatcacg atgaaatcgc gaccccgacc ataatttaga atcttagaaa 360
 caatattggtt gcagtgacaa ataaagaatt gctgacagaa aagcaaaaa 409

<210> 29862
 <211> 288
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 29862

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tgtgatgcta cttgggttttg tgggggtggg tgtttacttg actgtactaa gaagtgaaat 120
tgagtatttc gtttttattg catgatacgt tttcttttca tcttggcatt tgggtgcattt 180
gacttatttg tatattcatg atcatccatt aaattgataa tgtgtattct tgttggagat 240
ttgtttttta agatggaaa agtggtgtcgc aacatgcctt tttgcggg 288

<210> 29863
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29863

ttggaaggta gtcatacctc acaaaatata tatatatata tatatatata tatatatata 60
tatatatata tatacatata tatatatata tatatatata tatatatgtt tagggagaaa 120
gataccttgg atatgcatgt atgtagcaaa aaaaatttca caaaatatat atatgtatgt 180
ttaggtagca agataccttg gatatgcatg tatatagcaa anatatctca caaaacatat 240
atacgtatgt ttaggtagca agatacctgg gacacacatg tatatagcaa aatacctcac 300
aaaaatatac gtatgttttag gtagaaaaat acctcatgag aaaaaagaga gcgagcaaga 360
naagaataag aagaaaaaaa anatagagag agaaataata naaaaatata taanataata 420
gagg 424

<210> 29864
<211> 412
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29864

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ccctacttt tgagggggcaa ctcccgctt acgacgacta tcccgggcaa gacgatgagg 120
aaggagatac ccatcttggc cccctgctcc acctgaaaga tccgtcccca catgaactac 180

cccaacaaaa catagtccgc catgtcccg cctcacccac acccgtaaaa gaatctgttc 240
 ccttcgcgga agataaggga aagattgagg cacttgaaga gaggttaaga gcagtcgagg 300
 gccttggcaa ttaccatttc tcggatttgg cggatntgtg tctcgtgccc aacatcgtca 360
 tccctcccaa gttcaaagta ccagactntg ataagtacaa agggacgaca tg 412

<210> 29865
 <211> 427
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29865

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 gcacaacaag ttttccacat ccacaaagcg cgcataaacc caccatcccc tgttgcccac 120
 ctccaactga gctcatgtac tcccacgtag cccatatact cgtttctctc aacaccgggt 180
 ccccatcaat cctcccaagc ttccccaaca tccaagtaac tcaacattca aacaacacaa 240
 accatcacag ccaagaaaac agggcaaagg cagaaaactc tgcccaaaac accaaccaaa 300
 atcacagctt ttctcactta nagaccccag taacaattcc ttcgttccaa ttcgttaacc 360
 gttggatcga ctccaaaagt ttactggaag tctctagtag ataagcctac attntgaccg 420
 ttgggat 427

<210> 29866
 <211> 486
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29866

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 actcagagac atgtgtcaac ctccacgctc aatcctgtta caggagcgtg gaaacctgac 120
 ccctagtagt tggccttccc aacaaacagg ttatttctaa cctaactaat attcaaattg 180
 gtttgaatat tttatctatt ggcatatatt aaattatcta taatgccaca ttatctacaa 240
 ggtatgatta tcttctacct ttatctataa ttcanatggt tatctctaac attatctata 300
 aactcccagc tattatctat aagccgagaa ttatctacaa ggctacaata atccctaana 360

acatcctcgc tcaactaata taaatacagg ttccattgaa caactctaca cgacttgctc 420
 acacactcaa cacacaacaa caagcctgtg ttccctctctc tcgctcatac gaagctcatt 480
 acaaca 486

<210> 29867
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 29867

agctttgaaa ttttttaaat gctattaact cttcactcgg atgtccgatt caggagtatc 60
 acatattgag acgctcgaaa ttgaacaacg gaagctctcg agaaattgaa atggccataa 120
 cttttcactc ggatgtccga gtcagggtgca tcacatatcg agacgctcga gattgaacga 180
 cgggagctct caagaaattc aaatgggtcat aacttttcac tcggagggtca aatccacgcg 240
 cctcacatat ccagacgctc gaaattgaac aacggaagct ctgcagagat tgacatgcta 300
 ataacttttg actcggatgg tcaattgatg cgcatacat atcgagacgc tccatattga 360
 acaaccgaag ct 372

<210> 29868
 <211> 538
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29868

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 tggagcttct atggaagctg gatctttgag cttcgatggt gtccttcaat ggtgattctt 120
 taccatggag atgcagcggg aggcccaagg aaagaggata agggaagcgc cattcactat 180
 ggaataagcc caggaagaat gagcttcacc acccagaatt ggcttgata aaaagcttga 240
 agaggatgct tttatggagg aaaagaaaga aagaaggag gagcacgaaa tttgaagaat 300
 aaaagaagga aagaagtga acttttgagt ggatctcata anactttcat tcatcaaagt 360
 tacaacaagt ggtacacatg cttctattta tagactanag agcttccttg agacgctttc 420
 ttgagaaaac tctcttgaga agcttctttg agaaaacttc ctttggaagc tagagggtag 480
 ctacacacac cctctcata acttagctca cctccttgag aagcttctta agagaatg 538

<210> 29869
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29869

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 atattaatca acttttttaa agaataaagaat ttaattaaaa gagtcttata tttaagaatg 120
 aacactatatt tacacttcan atgtatcacc tatttttctaa aaattatata taataaaaaa 180
 cttaaaaagc atgcatgcag ataataattct ttatgataag ttaatatcgc atgattgtta 240
 gatggcatca cttttttcac taaactcaga tgcacttgct tcgtagatat taccatatgt 300
 atcaatgagc aaacatgctt gatagagttg ttttgcgat acctttcatg agtgggtgac 360
 antgctaacg aaaacaaatg ggtcttgctc cgattgacat gtacttccaa ccaatcggac 420
 c 421

<210> 29870
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29870

agctgcatgc cccacctaata gacatcttct agaaatgtaa gtcaagtatg gtagcggctt 60
 gattaactta taaattgcta tggtagcatt aaacgaccaa gcatatacca caccatattt 120
 ttaaatcttg attccttaata caaggttgat ttttttgtaa tttgctgtgc tcaagacaaa 180
 atatctggta accatttgac tggcttatgg tgcatacttt gaagttagaa tttggaatga 240
 agaggaggag cataatccgg ttattccttt agataaatcc cgccatgaaa ttcggagagt 300
 gcatncattt gtagttctga tatgcacttg anagatngtg gatagcaagt acactac 357

<210> 29871
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 29871

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aaaaaaaaatt gacttgccct aaatatgatg ttttatgagt ttttgtgaa acaatatacg 120
atagtatttt tgtatgttag aaaactattt tatacaaaat attattaaag gataatattt 180
tctcttaatg aagcttcttg aaattggtac tttgacatat ctttaagactt cagaaattga 240
ttgttttttt gcaaaaaaag acaatcaatt aagtatcatt attcaactct ctttctagt 300
acattttgat ccactttatt tgtgtgtgtg tgtgttgcan aatttaattgt gtattaaatt 360
aatttcatat tcaatttaat ttttcattaa ataaataaat taaagt 406

<210> 29872

<211> 407

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29872

tcagggtcaat ggccactggc tgaaaccatt cctccttagt ggatgtagtg gtggaggaga 60
cctccttact tcaccctact tcttttctgc catgacttgn ggagtcttct tcttctgtc 120
tccttcttta cttttattgc acttgtccaa attttattga ttgctttgat tgttcttgat 180
cttatgattg tgctacattg aggacaatgt gttgtttaag tgtgaggggg gagaagattg 240
ttctttaatt ctgttgggta ttctaagttt aatttattag gttctctagt ttaagttttt 300
taggttctac gttaactttg ttattttggt tntatgtttg tgtacaacat tgcattgtcc 360
tctttgaatn ttggttatgt agaggtaatg tgtaattggt tttgaat 407

<210> 29873

<211> 374

<212> DNA

<213> Glycine max

<400> 29873

atTTTTttat taatggaact tatctttttg gcagtaacac attaaattca ataatcggtg 60
taacacatca tgtgtcattt atgcgaccct atgggttgct tgatattgct tctgtttcac 120
tagctaattc attgactctc ttcccatata ttgatgaaat atttgagaag ctggactata 180
taggcataaa ctactatggg cagggttgct ttattaacct tgagagtgca ctgtgcatga 240

tatctgacat actcacatga caattctcac atttatntta agaagtgggt tcaggtgcaa 300
gcttgaagtt ggtggaaaat agtgagtaca gtgagtctgg tcatggggta taccctgatg 360
acttatacca catg 374

<210> 29874
<211> 416
<212> DNA
<213> Glycine max

<400> 29874

ttgataccaa ctgaaactac tatatatgca ctaaaagggg ggaggggggt gaatagtgtc 60
tatcaaagaa taaatatttt cacaataata gggatagtat ggataatata aagataaaaa 120
ctgattgtcc actgagaatg aaaagactat gtaatgaaga atagagtgat tgtctagtga 180
caaacaaaag ggtcttaaaa caatttttca aataagtact tgggtgtaaag tgatgttaga 240
aaatgtaata agaatactcg ataaaacaat atggagtga gtaaaaacac ttggtttata 300
ctggtttgct caacctaagc tacatccagt tctactttac tcaccagtaa agggttccac 360
taatcaaaaa ctgattacaa caagtattct aacctgtcac ttcttgcttt acaatt 416

<210> 29875
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29875

agcttcacag ttgntttatg acactcccta ggtcatgaca tgatctcata tactaaactt 60
aattcgtgtg cttaaaaaac attttaatac atatgactga gaattgttaa aacttgcagc 120
taacattcta ttttactagt attataacgg agtctaattg atgtgacctc cttaggtcca 180
gtacgggtgtg taagtnttta acggtcattg gatacagtgt taaaaaaatt aaccatagag 240
atnttgaggg ataggggtgt cataaagtat tgaataacaa ttgtcagcgg cacccggttt 300
taaaaatttt gggctctataa aaaatactaa ttaagaattt tttatatnta agtattttaa 360
attagacaca tgatataata tgatcaaaaa atatatacat tctatttcat 410

<210> 29876

<211> 391
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29876

 accccacaaa ccatgatgca ttgtttaacc ttggattggn ttcaaaaatg gaaggctcgt 60
 tacaacaagc ggcagattgc tttcaagctg catatgaact gaagctttca gctccagtgc 120
 aaaaatttga gtgaccgaga ccttgggagt actggtaagt ttttgtgggt gagttcaacc 180
 aagagcatta tacaaaaaac catgagcagc aactgatgga aaagaaaacg taccatgggt 240
 taatatttgg tgagaaacct atatagtagt tatatctagc tacttattta tagatttact 300
 tcattatggt ccaatggaat gtccttcaca tttgacacgg aaggacagaa gtttggcttc 360
 ccaagtggta tagaattctt tataacataa t 391

<210> 29877
 <211> 388
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29877

 tttagcttat cggtttatgc acattgcata agcataaacg gatctttgag gacttgatac 60
 tgatcaacaa attaaaaaat atatatcttt ataatttcat gatcatttgt ccaaggttat 120
 tactgaataa agtggattat tagatctagt aatattctga ttntacactt acgcatttca 180
 taattaactt tgcttatagg ttactggaag ggctttgcag gactcagtac aaatagtgac 240
 taagttttct gagatggaag agacatattc ttctcttggg tctcttacgt aatctatagg 300
 ttaagctttt tgaaatatat tttccattag aactcgtatt ttctcttact ttcagcatct 360
 gtatactaaa ctatattctg cataatat 388

<210> 29878
 <211> 401
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29878

 tagagcgagt tcagcactact ctttgtgtta acccagcgc gctatctgaa aataaaccaa 60

aaacaaagac agtctcattc tcatagtact tgggagtcac acggtcgggt ctcttctctg 120
 tcactttggc taccactaa gaaaaatcga tcctttcttc tcttccatac gcttctttct 180
 cttctcttca ttcatttcaa tttgtggtgt tagtgaaata ataatgaagg ggtagttgaa 240
 cattcaaaca acccatgccc tcatttttat gtgtgggtat ggtctcatta tcttcaacaa 300
 atacatagta caattactac aatgctgtat ctgcttctgc gtggntctta ctcaatttct 360
 tctctttctt cccttcttcc tcgatctcaa tcttcccaac t 401

<210> 29879
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 29879

agcttcatcc tcagattcct aatttaagac taggcttaat ttaaacaaca ttatcatcac 60
 aacatattta gaaaaccaga accccacaat tcatccctgg taatgtagtt atttagccct 120
 gcttctatca agttctacag caacagtgc tttcccaatg ctaaagtcac ctaacaatac 180
 acacaaatgg gtgatcagac caagagcatg caagaattaa gcattgaaca cacaaaacac 240
 aattaattag atattaaagc taattacatc aattgttcct tagaaatccc caactagggt 300
 gtttagccag ccatacaaag aaaccctaac acaaatgaga tagagagtac aaaataattg 360
 gtgcttacac aagaaagggt atccctctct ctcttttaag caccttacia tcac 414

<210> 29880
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29880

ntgaaagtgg attccttggc cttcatttaa ttacaaacac gtttgttcct nccgtgactt 60
 ggataaattt taaagtgtgt tcaaccgaaa tttaaaataa aaacagaggg ttgagggggc 120
 ccaaattgaa agcaaaaata aaaaaggatc acaattcacg aagtagttaa aacttgaaga 180
 gaataccata aaattaatta tgcaagttgt ccactagccc atcttgtcca atcaaataaa 240
 cctaaacttt cctcatggga ggtgccatgt gagggctcta tctctccata ntttattaat 300

atcatattca aaccacattc ttgttagta atctttcatt tcnngttatt agtcaaactt 360
aacttccttt tctttcatta cccctcagat taatacgcca cttatttcat tctcanatat 420
ccgcttcaaa ataatagtat atta 444

<210> 29881
<211> 379
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29881

agcttggtttt gttgaaccac ctaattactt angattgaag gtggttgat cactatcctt 60
cgctcatggt aaacaaggaa agctggatgc aagggttgca aagtgtgtgt tcattggcta 120
tcctaaagaa gttaaagggt acaagctatg gaaattgaaa cctggtgaga caagatgcat 180
cattagtagg gatgtaacct ttgatgagag cagaatggca atgctaagca aggagctgaa 240
ggataacagc tcaagtagtg agagtaccaa atttgacgtg gagcattcta agatttcaga 300
tcatggcagt ggagatgcta ttgatcacac tgattaagca gaaactggag ataatgaaga 360
gctggctact cagcatgac 379

<210> 29882
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29882

ntgtcgcta tagacgtcag gatgtactga ctgttgccct tggatgacca gagcaccctg 60
ctcgtgtccg ggctactaga gtcggtgtca tgaccaaaca atactttgga ctggcttcaa 120
aaagctctca cacatctact tccatggctt ttgaagacct ggagcagctg acaaaaaatc 180
agggactagt tggaggagtc aatcactaaa aaatgactcg acaactaatg ctttcattca 240
accaaagca atcctagatg caatcataga tacaattata gggactcgta ccacctctg 300
agcctgaggt tagtccttct gctgcctgtg togatccctc gaggaaggac ccaaactg 360
gtgcatcaga taggcgcggg ttgtatgtca atgagaatc tcct 405

<210> 29883

<211> 385
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29883

 agcttctata ttctaattgtg ctaacagacg attccacaaa ccatcttgac ttcttacaag 60
 tctttggagc atcgctaaac acattagaca atcaatgaga gactntagtg tgaaaattta 120
 tcctaatect atccctatgc tcagggttcc acatcaccaa cctctatatg aagagaaaaa 180
 aatgtttgga taggagacac tgaatatatt tcaatgttgg tataggaaac actgaaaatt 240
 ntatggcaac ttgagccatg aaattgcaaa aagaagcatg tgggtataaga aatatagaag 300
 cctcacatct aanagtgcaa attanataaa attntaattg aaaaactaaa tctatgtttt 360
 tgggtacataa cacttaattc acatg 385

<210> 29884
 <211> 445
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29884

 tgggtatcat ctggtgggtc agaaatggnt tctatacatt gactttacac caagaaattc 60
 ttcaagatct caccaggtta ttctacagtc tgaacttgag ttaacctata tcattttgtg 120
 tgagcgggtga acctatgcat tatgtggtgg cttcattatt ttgaattgct ttctgcatgc 180
 caataggggt atacatttca ttgtatctga gaccaatggt ttattctgat aactaaggat 240
 tttaaaacaa atgtgtccaa cttcttcaact tcgattaatg gcaagtgaat attggaactt 300
 tcccaatttt atttataagg gtttgtatag aaagaatcct ttcacttgct ggagatntga 360
 caaactgctt gtaactggaa tcagcatcgt atcttgtaat gccataacct ctgtgaatgg 420
 tatnggatta tataccgtat ttaat 445

<210> 29885
 <211> 395
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29885

agcttcttct atggattgaa aacttgctta aatttgatga gtatcaagca cttaatatca 60
attgtcgtat aaagattatg tcacaatgga aatatttttc tccttttcca aggcatgaat 120
gattttcaca atttagttgg aaacatctaa attttttgaa ttgaagataa ttcgttntaa 180
aattttccta actcaatatt gtttgtaagg aattttatat agttgattat cttgatggac 240
ttatggacac tgacagtggg atacgaaaca ttgtttcaat gtttgaaatt gctaatatcc 300
tatccattnt ttaagtacat catcaatctg aattctcaat taatgtgatg ctnggtattc 360
aactnttatt tatcataatt nttttcatgc taagt 395

<210> 29886
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29886

tggtgctgat gccgcacggn ctgatgatct cattcaatgt atgtgtttca tacgtcaagt 60
tcccttggtt gtattgtatg attcaggtgc gactcattca tttatttctc gtgtctgtgt 120
tgaaaaactt gccttgctg tgtcttctt gaaattttac ttgattgtga atacacctgc 180
tagtgggtct gttntaactt ctgatgtgtg ttgcaatgt catgtcttaa tttctgatag 240
acaatttctt attgacttag ttgttctacc ttgagtcag attgatgtta ttcttggtat 300
ggactgggta tcttccaatc atgtcttatt aaattgtnt gagaaatctg ttggctttct 360
tgagtctggt gtgagtgaaa gtgatatgt 389

<210> 29887
<211> 210
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29887

tagcgcata acagagatgc gcttaacgag aggcttgtgc ttagcgaaag gactatntgt 60
cagaataaaa atttctaagt tatttttccag tcctttttcc aagaaaatga aacccttatg 120
ttaaacattc aaagattggc tgatatactc ctatgtacag atcatacagc aagttccaaa 180
tgattaaatg catgaaatac aaagataaca 210

<210> 29888
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 29888

tctggtgact gggaagcacg ttattctgtt gttttccaga tcggttcctt cgccatgtat 60
 gtgcatactt gtattatatt tgttgttctg gttgttgttt gtattttgtt ttgtgcagaa 120
 gataaaaaaa agaagaagta gagatgagag tcgtcattgc gaaaagggta ggacggacga 180
 aatctgtgtc ctatctttgc tttcctctta tctccgatga gaggtaagta aagaggggca 240
 actgtcatat cctaatttcg tccggggatt attacttgat gacatgcaat aaatgaagtc 300
 ccgagacgtc tcagaaatca aaaggaagca ggcttgctg tttcgtgaaa ttcggtaatg 360
 tggcggaagt cgaacatatg tgtttctgca caatccgtaa gtttccgtga cttcttcgta 420
 aggtaaaaaa ggagtaaata cataatccgt atgtat 456

<210> 29889
 <211> 496
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29889

nnnnnccctt gagcctttat gatgcgctga aacacctcgn acccgggatc ctcagagtcg 60
 acctgcagca tgcaagctnn gaaaattttt gnnnnncttc ntctcgctaa gcccatctac 120
 tggcttaacg aaccttccgc ttaaccatt ctgcttgctt aacgagcctt ccggttaagcg 180
 caacactcat gggcctaaac gcgaggggaag actcttgga gaagatgatc tgtacagggt 240
 cgctaagcgc accacttcat ctactaagc gcaccgcttc agttcatccg ctaagcgaga 300
 aaggcacgcg ctaagccoga atcactaatc tgcgctaagt agtccataag tgccgctagc 360
 gcacgagcac ngaacaggtc acctatttta gccctanac agattcagag aaggagtgga 420
 ctgggatcan nagcttgcat tctatgggtc tagaagagaa aggtccagtc taagagtttg 480
 agagattgct ggtgan 496

<210> 29890

<211> 454
 <212> DNA
 <213> Glycine max

<400> 29890

tatgttgatg ctatttctga cttaaaaata tttagagggtg agtcttccag ttttgcaagt 60
 taaggaattt ttttagaatt atttaattcg agtaataatt tttttgtttag aatgaagtat 120
 caatgtctag ttttaagttta atagtgtctag caaatagatt tattttatttt tatcattcac 180
 aaaatattta attgaagtaa taattgtttt tttagataaa aaattaatat gtgaagttta 240
 agcgtattaa tttttgtaat taggtttttt actttgaagt ttttttaatt atgtttaatt 300
 atttacaagc cttacaaata tttacctgat tcccttctag ttttttgaag ttagaatgaa 360
 atttgaatct atattttaag ttaaagtttag tagatgaagc aaccaaatac agttatttat 420
 ttaaaaacta ctcttgttat gattaattat tttt 454

<210> 29891
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29891

tgcacccggg atccttaagt caccgaggct gcagcttagc attgatngnn ccatgcttct 60
 catttgatgc tccccttatc tctaacaatc tccccctttt ggctttgatg atgccaacct 120
 ttaactatga cattgagtgc attggagagt attgagatgg attggaaaca tgatcttatt 180
 aacacttaat aaaggattaa ttcacatga ttgatgcaac cctaccccc aagggcattg 240
 gatagaagac tccaagaaga ttgngccaga caggcaagag aaggccctag ggttcttatg 300
 agcttttaggg tagaatttgg gcccatgggc taagtatgag cccacttatc tttgtacata 360
 ttagattang atttcattat ttttgggcct tgtatttang gttctataat 410

<210> 29892
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29892

ctttgatgat tcattacttg tcttttcgag gagcacacaa tttctggata acttgtcttc 60
 atgatttgtc tttatcttca tagttctatt atttcaatct tgtcactgat ctattgtggt 120
 taaactcgtc gggtcgcccac agtggtttcc atcacaatac tcattgcgca ttaactcggt 180
 gcccttaaag ggtcttagca ttaacttggt acccttaaag ggtcttatag tcgtgtgatt 240
 gtacaattca tagctcataa ctcaatgcac acaacatctt aatgcacaca tgtatattgc 300
 aagtcaatac atactcaatt tatcacatat attcgggtctc aatcacaatg gaattgtata 360
 ttctcaaagt agcatgttat cacacctcat gaatcataca cactntacct atgaactatg 420
 aaatacacac aactactcaa ttgtttcaaa gtcatttacc tcg 463

<210> 29893
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29893

agctntgggg ctgaanaach attttacagc accaaggggc nagnntaggc tctcttctct 60
 cttgtctcta ttctctctcc tctcctctct ctctctttgt cggttatagtt ttagagtgtc 120
 actctctttt cggttttagt cacttttcgt tgtagcaata aaatttcggt cttcaatcta 180
 taatttcggt ctctattgat taatggaagg ctaagtctcc aacggtgttt tctcttgagg 240
 atcaagcaca attctctctg aggttctatt attactatta aattctgac cagttttcct 300
 cttcactaat tactctgtat ttgttgctat taattcatgc atgcttagtg cttgattaat 360
 tgtctctgtg cttcaattac gttcatgctt aatgatcatt tatgattaat tg 412

<210> 29894
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 29894

tatcggcctg acaaacccaa acagcgatct aaagcctcag attgataagt aactgttact 60
 actaaagaca taaatcttaa tgttactact aaagccatag atcattgatg tcatttcttt 120
 ctatgatcaa taatagttca ctacataaaa aaatttcaga gggcaatcca accagacaag 180
 gagccatgca aaacaaggta aaagtgtcgt gcatttcagt tgtgaaaaga acagaagcag 240

cataacatag aaagaaggcc agcaacacca caacaggacc tcacaatcag actagacaga 300
 caatgggatc tctttgatct agagatgcc aagaagaca ggttccagca atacaagtgt 360
 tatcaatggc atatcacgca aaatgacaaa ccaataaccc agtatatcat ataacagata 420
 gtgttgcaag catatagcag aagtcttatt cacata 456

<210> 29895
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29895

agctngaaac ttgatgggaa ttttcaaag tnnngaagag aaattgctga actagaggaa 60
 caactcaagg ttttgaagtg tgtgaacttg gaggaagctg atcatgagaa taaaagaaag 120
 atagaaatag aagagataga agaaaaattg gaggacatga tttttgatat gtccgtaaaa 180
 gatgatgaaa atcaagcttt gaagaagaag gtacaagaag ctaaaatcga gctagaagat 240
 gctaggcaac aaattattaa ggtaaagtgt ctgttctgag aaaatcctta ttctaactct 300
 tataactaagg agacactnta gttcataatt ntattaaacc ttttactnta atttttcaac 360
 ttcacaaaaa gtaattcatt ttttactttt actttgtatc ataaagggtta ttttaagtga 420
 taatat 426

<210> 29896
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29896

ctaagcttcg agagaaanac ctaccgtgag agcaagaatg agagtgcac ctataccaac 60
 agtgagagtg tgaccgatag tgatagtgt gatactgggt tcagtgccgc gagagtgata 120
 ccgatagcga gagtgcact aaaacctaga cgatcatgag cgagactgac gacaatgggt 180
 tcagcgtcac aagagtgaga gtgagagtga aagtgacaaa gggtttgagg ttgccagaag 240
 cgtgagggag atgagtgaat tgccaaaagc acgaataata ttataaatag gacaatacaa 300
 tgtcagtttt tcttttaaaa aatgatatta gcatgagttg gttaatattg gtttttgtaa 360

aaatcgatgt taaagaagtc acgagaacat cgatctttga acaactgatg ttaacaaact 420
aacgttatc 429

<210> 29897
<211> 491
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29897

aaaaactgtg agctctgtga accgtttgaa tacaggcacc cgggatccta ccagtgcact 60
gcagcatgcn ctgaggcatg ttagcgcccc actcgctcgc ccaggcgagc tcagctgtcc 120
cagccgagca aggttggttc ctccagaagc aacagccttc tggacgaatg atccggaacg 180
cccaggcggc cacattgcta tatgtacccc cttattacta aatgcacccc tcttagtttt 240
ttgggtaatt cttttccgta acgttacgaa actctacgaa tatcgagcga tgcttatctc 300
cttccgcaag ttacgaatcc ttacggatta tgtatttact ctntattagt attcgaagac 360
gttacggana ctcacgaatt gcgcaaaaca cctcttttcg atttctgcac attacggaat 420
tcacggatcg cgcaagcctg catactttat gattctgaga cgtctcgtga ctacatttat 480
tgtgcaacaa t 491

<210> 29898
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29898

caacatgcga acatctcaag ctatcacagc caagcaaaac agagcaaagc cagaaaactc 60
tgctcaacac atcaacaaa atcacagggtt ttctcactta aagaccacag taaaaattcc 120
ttcgaatcaa ttctgtaacc gttggatcga ctccaaaatt ttactggaag tctatagtgc 180
ataagcctac attttgaccg ttgggatcta ctagcagaca ttgagaactc attctgcact 240
agactttcca cagccaacca cacacaagca ttnttctgca cttgtgcaaa attctgctgc 300
acaatttcac agcatatatt ctgcataagt gcagatttcg aatatcacac ttgctctcat 360
ccaatcttgc ccaaatcaat tctacaagt cccatatcat gtatcaatca tgtctaaacc 420

aaattcaag

429

<210> 29899
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29899

ntgcatgtct agggtttcta gagagagaaa ggtgggagtt ctagagagtt ttgagagatt 60
ttgttgtgtg aagatctgca gagaccagag cttgaaacaa gagccggttt gagagcttga 120
gatgagtttg tgagtgattg cgagatccta gaggtgaagg agacatcttc accacttgta 180
tatgtgcaat ctttcatctt gttcttctct ttgttcttaa gaaggctttc tggatatggaa 240
agctaaatcc tttgtggatc ttccctggag gtacctgatg taaatatatt tctatctatc 300
taatgatgta ttgtgtgttc tctgtgctat ctgcttttca ttccagtatg cctttacctt 360
gatcacgtag atgcatgctn tgtaggggc attcaatact ggaaactggg ctgacgctaa 420
agtccttgat agtgcacggc tg 442

<210> 29900
<211> 402
<212> DNA
<213> Glycine max

<400> 29900

ttctgtgtct tctctaaata acgatctact cttgtagacc ctttctattg gatctgtgtt 60
aacttctgat gtgtgtttga attgtcctgt ggagatttct gggagaatat tcttaataga 120
tctgatcggg ctttcttaga gtcacattga cgttattctt ggtatggact ggttatcttg 180
caaccatgtc ttgttgaacc gtttagatat aagagtgggtg tttgacgatt ctggagttag 240
taaagatatg atgtttatct ctaccaatct gtgacatcgt ttaccgaaga tgcttaagta 300
tacatgatct tgtctagcct ggaaaagata caaagggttc tatgttgacc ctctgatgt 360
caacactatc tgaagtgttc ttgaggaata ttcactctcc ac 402

<210> 29901
<211> 363
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29901

cnggcacann aggaggngaa tgtcaaaggn caaaggcacc gcgaaccgac naccaaaaca 60
ttggaagacg aaacagcaca gagaaaagaa ggggaacgaa ggaaacacaa ntcgaaaaca 120
gccacaaaac aacggtgcta ctggaaataa tatcccactc tattgtccaa cggaacgccc 180
agagggcatc gttgcttaaa attgacgac aagcacaata atagttgacg ttcgatcagt 240
aatattatat tctgagaact tgtgatgtta acaattactc tggatgatg tagtcacaat 300
gaagcaaagg ccgataacca catgacttaa ttaacgacctg ctatgatagc aagataccga 360
gtc 363

<210> 29902

<211> 444

<212> DNA

<213> Glycine max

<400> 29902

tcggcagcta aagtattact caaaagataa agatccaaaa tcaaatcaat cttataaata 60
aaataaagaa tcaaaattaa aaataaaata aaaaatcaaa agtataattt atcctaaatt 120
atattgtaga tttcgaataa atatttttaa ttttaataa ataacgataa aagaaggtaa 180
actaaaaaat aatttaagat gattagaaga tcaatttttt tactaattgt gagggtagtc 240
taataccttg attttcaata tttcacgttt aacttccttg atcaccgtta taattgaaat 300
tgtcatttaa aacataaaga ttaattaaat gaactttatg tcaatctcta agcaagtttc 360
aataatttat tagattgaaa cttagaccgt actgtgaatc aataaatgct ttcacaatat 420
gtgctgtgag ccgacaatca aata 444

<210> 29903

<211> 427

<212> DNA

<213> Glycine max

<400> 29903

tgaacgtaaa ctgctcgaga aaatacccaa cttttaagtg aaatgatgga agaaagagaa 60
agatattggg aaaaaatgga aaaagagagg agaagattga gaaagagaat gagaaagatg 120

aaagagtggg acgacctcga tggaacgtga ttggcgaaga agagaagtgg tggctctggc 180
 ggtgcagcga gcaagaggtg aaacagtgcc gttcgggggtg ggattagtat agaaatgagg 240
 aagtgtgtat agagggggttc tagaacggtc gaggacatgg atacggtcct aagagcaata 300
 acaccactct caaatgcgga agcataatat acaggggtta tgaaaatatc ataaacaccc 360
 ctgtttatac cgaatgtcaa ttttatatgt tgtccaattt ataactgaac cgctattat 420
 tgcttat 427

<210> 29904
 <211> 222
 <212> DNA
 <213> Glycine max

<400> 29904

gatggtgcaa catatttctt tggcctaata ggaactccaa tatttttaca gcttctaag 60
 ttatgattgg tttggccaca cctccacat gtaaactcag ccaatttcct ctttagctta 120
 tgtcctgtga cattgtctc atctacagat ctcttctat gattctttgg ccttactcta 180
 tggacctttt tatgtggtgg aacagggtgt gtatactgtg tc 222

<210> 29905
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29905

tgttctanat atacattgat gtttgtatgg gaggatgtta catgccatta ttgctttaag 60
 agtaatgtcc cactaaaact aactttccaa atgtttgcct tcgcaggaat ggcaccgagg 120
 aagcttgctt catagaggtc caggaaagac aaggcggccg aaggaactag ttccgccccg 180
 gagtacgaca gtcaccgctt taggagcgtt gtacaccagc agcgtttcga agccatcaag 240
 ggatggtcgt ttctccgaga gcgacgcgtc cagctcangg aggacgagta tactgatttc 300
 caggagggaaa tagggcgccg gcggtgggca ccaactggta ctcccatggc caagtttgat 360
 ccagacatag tccttgagtt ntacgccaat gcttggccaa cagaggaagg cgtgcgtgac 420
 atgagatcct cggttagggg t 441

<210> 29906
 <211> 401
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29906

agcttatcga tactgaancn canncnnnna acacattgtc tttttcgtac taaaccaaaa 60
 cccaattcgc taacttttta ccaaaatatt aatttattaa ttagggaggg catacaagga 120
 aatatatttt caaacctat ttaggaataa atgtaaataa aatacaaaat caaatctatt 180
 gtccgaaggg agcgccgttg ggttttctat cctanactct accattttcc cttttcataa 240
 ttctcactct cgcgaatatt attttccttc aaagtcattg gtaagttaaa gacatttttt 300
 ttttataatt ctttgcccat aaaaaanaaa taattccatt tatcgaanag tgaatattca 360
 atgtaaacca caaccttaat tgaacattat attcaagatc t 401

<210> 29907
 <211> 441
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29907

nggttaacaa tatcctttat ataataaaa tggttaattaa tatcttanaa atactagtta 60
 atgaacttaa agttgaaata cggaagataa acaattacaa tggtcatatt ttttatgatt 120
 tatgcattta atattcttat tcttttaatt ccttaactaa tatctagaag cgctaattaa 180
 caagaaccat ataagtaaac caatgagtaa ctaacaatcc cgttataaaa aaaaggtta 240
 tcatcatgtc ttttttgac taatcatatc atcctatgat ttcattcgac aaataataaa 300
 gttaaaaatg aattgaaatt aaaatacata ggaccgaaaa ggagttatga gttaatatat 360
 ttaattaaga cacatatctg ttaacaaaat tgatacagca tgaatgaata atgcgtctca 420
 gcgaacaaaa tcttgatggt t 441

<210> 29908
 <211> 311
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 29908

agctntgagc ctaaactctg actctccata ttccttngac ccaggtgaga atgccaatcc 60
ttaccctcgg aagcaaaaag aatggaggga anattccaat caaagaanaa gagaaggaaa 120
atttccaatg aaagcaaaaa agaaatgaag gaaaattccc caatcaaaga gtgggagaaa 180
gcaaaaaaaa ggaaaagaag gaaaattccc caatcaaaga gtgggagaaa gcanaaagaa 240
nagaaaggaa aattcccaat caaagaatgg gagaaagtaa aaaggagaaa gaagaagaaa 300
gaaagctctg a 311

<210> 29909
<211> 456
<212> DNA
<213> Glycine max

<400> 29909
tctagccaaa gaaagaggga gagaaagaga gaggggggag cacgagattg aaggaagaaa 60
aaggagagaga agttgaactt tgagttgtgt ctcacaagac tctcattcat caaagttaca 120
acaagtgtta cacatgcttc tatttataga ctaagtagct tccttgagaa gctttcttaa 180
gaaaacttcc ttgagaagct tctttgagaa aacttccttg agaagataga gcttagctac 240
acacccatct aaaaactaag ctcacctcct tgagaagctt ccttgagaag caagagctta 300
gctacacaca cccatctaaa aactaagctc acctccttga caaaatacat gaaaaaacia 360
aaaaaaagtc cctactacaa agactactca aaatgccttg aaatacaagg ctaaaatact 420
atactactag aatggtcaaa atacaaggcc caaaag 456

<210> 29910
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29910

agctnanatt atcacancan cgttttgaat aatganaagn nactgtgtga gttgatttct 60
tttgcggtat ccaatataat aaaaatatgt gattatatta caaaatcaat tcgaatccaa 120
aaattggtgt taatatTTTT atttgaacct gtgcgttgca tgggttggtg gactagtatt 180

tgtaacgact gggatcatat atagtttata gttaagtagg cacacagtga anatctttat 240
 aacgaagccg ctgtaaacgt tacaagcgga gagccgtatc aattcgcttt tcatatgtaa 300
 tgtgtnaagc aggcattgca atattactga tttctttgca gctagagttt aatttatatt 360
 atgtttatcct atgcattaat aatatgatac gatgaaaaaa tattttctta ttaatat 417

<210> 29911
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 29911

gctaataatt attgctcatt ctttacagat attgaaaata acatctctaa gattcttgag 60
 cttattaaga acaaaagcca tagcaaagaa gatgatgaga accacaaaca ttctacaagt 120
 gggacagaac ttgttgggtt aatagaggat ttatacaaga agcaacaatc actttatgcc 180
 atatatgatt gtgtcattga agagtttgag aaagtagttt ctcgcaaaag aatcaagaag 240
 gttgcaatgt cttcctctga ctcggactct gaatactttt ccccagagga agtagatggc 300
 attaagagaa agtcagataa agaattattac agtgtatctt atcttggcac ccttaagcaa 360
 gaatctgata gaggtgattg tacagatgag gttcctaaga ttgaagcaac aaagtttgag 420
 gaacaattaa cttcactagc gaaagagggt gagagt 456

<210> 29912
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29912

agcttgtagc attatgcana ccattantaa cttttagctc gganatccga nggagnnccc 60
 gaatatatca agaccctcaa aatgaatata aaagctctta acaaataaaa cgaacataaa 120
 ctttctacac ggatgtccga ttgggcaacg taacatatcg actcgctcga aactgaatac 180
 caaagctgag agcaaattca aacaacaatg actttttacct cggatatccc attgagtccc 240
 ataatatatc gagacgttcg aaattgaata gagaagctgt gagacaattc taacgacaat 300
 aactttttac tcggatgttc gattgagtcc cgtaatatat cgagacgttc gaaatttata 360
 acggaagctc gtagcaaatt caaacgacaa taactttgaa cttgga 406

<210> 29913
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29913

tgagatgagg aagtgttgaa gggtgaaaact tcccgctttt attcgttgac cacagagtgg 60
 tacctggaga tatgtcgtgg gggtcaggag accttgngga cgtcatgtgg ggtgctattg 120
 cccaaaacca agcttgacca atcccgaccc aaccgggca tagtcgggtca gtgagaacct 180
 gtgatgtacc taaacaggcg agctcctggc agtcaataga taaaaggaac aaagaccaca 240
 aagcaaggag gcttgtgtgg tggctggcca gctgtgaact ttgattgata tgtgggttat 300
 ggctctgtgt aatcgattac caagggtggg taatcgatta aaaggctaaa aaatgaagac 360
 aggaggctaa gatgggtctct ggtaatcgat taccacgggtg tgtaatcaat taccatgctt 420
 gataacgatg tcaggaagcc atgatggctt ctggtaat 458

<210> 29914
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29914

agctnggcn ctcagnngnn agttgggtatg ttgacnccn naantngggg angaagagtg 60
 ggcacactan aagaatctaa aacttcaaaa cctggagagt cgatcatcat aaccacatcg 120
 agtagttgaa actcactcga aaagaaagtg agatttaaaa ataaatgaat tcaaattacg 180
 gtgatgatct gttcatataa taaagaaaat attttaaaaga gaaactaaag ataattttat 240
 tagtcaaaat agattaatat gatcaagaca gtaactaata actcanatgc gcataatntgg 300
 cctttgcatt cttaagaaaa atctatatat atgttaatcc attagagtga tagatagagt 360
 aaatgcaaga taaatttaat atgcgtcaat aaagtctaaa ttaacaattt tatcgattct 420
 tgatatatg 429

<210> 29915
 <211> 464

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29915

tactcaagct ttgacctaca tgttccttat ttccgattca tgtgttacta ggctatgaca 60
aaaaatattg aagatcaaga gtgatttatc ctaattaaat tatttccatt tctaattatt 120
tttttagaag ggcacagggg aatccgagat agctcttaat acaacagtgc aaagctgcta 180
cctatatgat atatatgtag ttaaaatctg accctgcccc tgtacgttaa gtaataagtg 240
ggtcgagcct aaatctgtgc ctgaagaggc atatgatttc aagagttgga cctatagtga 300
atttttaaaa aattcccaca ctagttatct gacactttca tttatgatga ggagaatatg 360
aagtaatttc tatgaagggtg cttcacttca tgagtntaag aagtgcacat tatcaatgag 420
tagttgaatt cgatgatatt ggatataatt ttcttaaata aata 464

<210> 29916
<211> 53
<212> DNA
<213> Glycine max

<400> 29916
taatgcatgt catacctact aggcaactata cgttgctaata ccattatgac cac 53

<210> 29917
<211> 497
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29917

aaaaaaccag ttaaccccggt cgaagccact gacatcaggg cgactcagct cggacccgng 60
atccttagag tcgacctgag gcatgttagc naacncttca taattcgcaa cacaagaacc 120
tggaagctg aaaatggccc tctcttaaaa cataaaccaa gggtagaagg tcccataaga 180
atatctaaaa tgcctttaat aaaagaataa tgaacctccc ttggttcttt ttggaaccct 240
gcacataagc caacaccgaa tattaaatca nggttggtatg ttgaaaggat agcagtgate 300
caatcattgc tttgtattgg gtcccgctct cctttttaga ttctttgtcc aatccaaggt 360
atngtgggtg atgcatangt gtcttcatct ctttttcatt ggccatgtng aaacttctta 420

gaagtttttc acatacttgg gttggtgaaa tgtaatncat tgctngttgc tatntttgca 480
atccaggaaa acattan 497

<210> 29918
<211> 449
<212> DNA
<213> Glycine max

<400> 29918

ctaagcttct ataggaatct tcttaaggaa gcttctcaat gaggtgagct tatttatgag 60
aggggtgtgt gtagctaagc tctagcttct caaggaagtt ttctcaaaga agcttctcaa 120
ggaagttttc tcaagaaagc ttctcaagga agctacctag tctataatgt gtaacacttg 180
ttgtaactct gatgaatgaa agtcttatga gacacacttc aaagttctac ttctccccct 240
cttttattct ttcaatttcg tgctccccc tctctctttc tctacctctt tcttttctc 300
cattgaagca tcctccaag cttcttatcc aaggctcctc ttggtggtga agctccttct 360
tccatggctt attccctagt ggatggcgcc tgcttctctc tcttctcctt tgcttccgc 420
tgcactaca tggtgaaaaa tcaccattg 449

<210> 29919
<211> 213
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29919

gctcactaca agccttaagt gaaaaaccat gatattacca tacccttaag gattnnntgg 60
agcttggatt tgttttggga ataagtgtgg ggggtttttg ttctattgga caacttgttt 120
tggtggctat gcttcatgat gtattttggg ccatacttga tgtacattgt atattgggta 180
aatgttggac atgctgaatg aaatgttggt tct 213

<210> 29920
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29920

tctgcatggt tagagagttc tagagagaga aaggtccaag ttccagagag tttgggagat 60
 tntgttgtgt gaagatctgc agagaccaga gccatcctga gagattgaga tgcgtttgtg 120
 agtgattgtg aggtcctaga ggtggaggag acatccccac tacttgtatt tctgcaatct 180
 ttcattcttta tcttctgttt attgtaaagg aagtttccct gttatggaaa gctaaatcct 240
 ctgttggatc ttcctttagt gtacttgatg taaatatctt tttatatggt taatgatggt 300
 ntgtgtgttc attgtgctat cagaactgca ttctacgatg cttttagctt gatcacgtag 360
 atgcatgtgt tntaaggatc attcaacagt gggaactggt ctgattctta gaacttgata 420
 ggacagggct agtttgttgt at 442

<210> 29921
 <211> 418
 <212> DNA
 <213> Glycine max

<400> 29921
 actcttctga ctcatgatgt agatccatgt ctttcttgag tattcatcaa ttatggacaa 60
 aaaatacctt ccaccaccta tagaagatac tcttgcaggc ccccgatagt caagatgaat 120
 gtaatcaaga gtctctttga ggggtgtgaat tgctttatga tattaaatcc tatgttgcta 180
 gccatataca cagtgtctgac ataatttcag ttcattccat ctttgatttc ccaacagttg 240
 ctgtttttga agtatcatca taccttcttc agtcatatgt cctagcctca tgtaccacaa 300
 ttgagtttag tcaggtatgc ccttattgga tcttgatgga acagttacta taccatcatc 360
 aatacatggt gtaccttgaa gtatatagag attacccttc tttataccct tcatcacc 418

<210> 29922
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29922

ttagcttcaa gactaatggc cttagcaaac ttcttattcc caaaaggaaa ttcaatanat 60
 aggccctcta tttttaatgg agagggttac cactactgga aaaccgaat gcaaattttc 120
 attaaggcaa tagacttaaa catttgggaa tccatagaag ttagacctta tgtaccacc 180

atggtggcta gaaatgcaac aatagagaaa cctagagaat agtcgactga agatgaaaga 240
agattagtgc agtacaattt aaaggctaaa aacatcatta cttctgccct aagaatggat 300
gaatattnta nggtttcaaa ttgtangagt gctaaggata tgtgggacac tctacaagtt 360
acacatgaag gaacaactga tgttaaacga tctangatan atactttaac tcatgagtat 420

<210> 29923
<211> 440
<212> DNA
<213> Glycine max

<400> 29923

tctgggacgc ttactctgga tacaactaga tcatgatgct cgctccagat gaggagaaaa 60
cgacattcgt cactaaaagt accaattttt gttacaaggt catgcccttc ggccttaaaa 120
atgtaggcgc tacataccaa cgattgatgg accaagtctt taaacaatag attggacgaa 180
acatcaaggt atatttggat gacatggttg tcaagtctca aagcatagtc caacaagtgg 240
tagacctgga agaagtcttt ggggaactcc gtaaatatga catgtacctc aaccctaaaa 300
aatgtacttt taagggtggc ggaggcaagt ttctcggctt catgatcact caccagggga 360
ttgaagccaa cctcgacaaa tgcactacca tactagagat gtgtttcccg accaacgtcc 420
aagaagtcca taaactgaac 440

<210> 29924
<211> 391
<212> DNA
<213> Glycine max

<400> 29924

attgaattat ttaacatgcc caaaataagt tctctaattcc ttatgaatct ttataattgc 60
atattacata atggagaccg gataaactat atatgaattt gcaatttatt atgtctattt 120
cttcttacta atatagcaat atacctaaat ttcttcttga aaaaattagt gcatgacaca 180
ttaatctcca atactacaga aatattattg tatttagttc ttaatatcat aaattgcagt 240
catataaaac atggtacact ttacgtttca aaatgactaa tataaccaat atttgattgt 300
ttttaagat taacgtgaga gtttatatgt ttaaggatta acgttttata acaatagata 360
tggtctgctg gcggttactc tatgtcttaa c 391

<210> 29925
 <211> 387
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 29925

 agcttttcgaa taatagagga actatcttca gttcgtaggt tgccttcac atcagcgggt 60
 taagcacctt ttntgaccca agagccatca tgctctttgc ggtaatcaaa agaagcaatc 120
 acagcagcac caattaaaaa agatctcttg attggaacat aaggttcaga atcaagagga 180
 atttgaaaat ggcaaaaaaa agagtgacaa ggtgtggata tggcaatgga gcatttaatc 240
 gcaatgcctt atgcatgcga tatctgacaa ggtgtgcccc gtcaagttga cgcccggtat 300
 gaaaggccca catgataaca agatcttctt cagaaacctg ggcaagaatg gaagatcgtg 360
 gaagcaaaaat ccgcacaatc agataat 387

<210> 29926
 <211> 442
 <212> DNA
 <213> Glycine max

 <400> 29926

 tagccaaatc atactttaca agttgcatcc ctattagttg cgaatcaaaa ttattgatcc 60
 aagtaatgat ctttgagttg tttacttctt aggtttccaa ctcatattata gatttcccat 120
 tgtgttcatt tggaggctta gtaagagttc catcaacata gccctacttt ctattgcctt 180
 tcaaaaaaaaa atttcattac atctccaata agaataacag agcaaaatag attaccggaa 240
 ccatcgtgtc gaaacagaaa caagtccgca acaaaacaga gaaggttgcg atataataga 300
 tcttcgtgac ggagttgggg tcacgaatgc agagagagag gcagaactgg gtcaaaaaac 360
 aaatttgata ccatgttaac attgagaacg ttacagttat tccgaattag gaaccaagct 420
 ctttgatagc atgttaacat tg 442

<210> 29927
 <211> 469
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

<400> 29927

ttcaatctca gctttaggt ttgtttatat tatgttgtgg taacaaagtt tctggcacac 60
gactgggtag ctgctgtcag ggagcttcag agcttatttc taacctagat gtcttttcat 120
ttggtctttt ttttgtttat ttatttttct atttaaattt ttttgtttca ttatatacta 180
ttggtggtca agatttctca gaacaattgc ttaactaaaa attttgggtgc actcttgaac 240
tctagccaat atacagaacc ttttaatagg ttaaagttac cagttagtgt gggattcaag 300
tttatgattg ctntaagcac tagtattctt ttaggtctct ctttaagttgg agaacgtaga 360
tagagagaaa ttgcttaaca gaattacaat taagagaaag gaaatntgaa gtgggaatga 420
gagaatctgg gttatctcta tatatgtaat aatctgtcca tgcanggat 469

<210> 29928

<211> 405

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29928

atcttccaca gnnagctcca atactttacc tgccatgtng cagatccttc ataaaagcca 60
ggatcatcatc atgcagaacc tatagaactc angccctgca cctatcatga gcatggaaaa 120
gttcattagc caagtggaat gaccaggagt ccaaccttct cctttgggaa ggggtgaggc 180
ctnccagacc caagagcctg tgcccanga tgaagacgag tctctcccc ctgagccttt 240
catttatgag ccagacacaa agattgctca ngaggaggca ccatcaccag agcttattcc 300
tcagtcatca ccatcaccag ctttagtcct tgaaaccag agccatctgc accagaccg 360
atacctgatc agcctcttgc tcangaccct ctagctgcac taatg 405

<210> 29929

<211> 424

<212> DNA

<213> Glycine max

<400> 29929

tgaatttggg ttacacatga ttgatacatg atttgggact tgtgtgactt gatctgggca 60
agattggatg agaggaagtg tgattttcga aatctgcact tatgcagaat ttttgctttg 120
aaattgtgca gctgaatttt gcacaagtgc agaaaaatgc ttgtgtgtgg ttgactgtgg 180

aaagtctagt gcataatgag ttctggatgt tcgctagtag atcccaacgg tccaaatgta 240
 ggcttatgca ctatagactt ccagtaaaat tgtggagtcg atccaacggt taacgaattg 300
 gatcgaatga attgttactg tggctctttac gtgagacaag ctgtgattct ggttgatgtg 360
 ttaagcagag ttatctgcct ttgctctggt ctgcttggt gtgatagcta gagctgtttg 420
 aatg 424

<210> 29930
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29930

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 naaaatgtgt gtatgtgttt cttgatttca aggttgtcat catcaaaaan gtggagattg 120
 tagaagcaag cttcacgatg ttgaatcaag attgattcaa gttgttntga tgataacaaa 180
 gatgatgaca aanagcccat gagaatgatt tcaagattga gtcaagaaca attcaagaat 240
 caagagacat ttgatttcaa gattcaagag aagatgaatt caagattcaa gagaagaaat 300
 caagaagact tcacaaggga agtattgaaa agatgtttta aaaaacaaac atagcacaat 360
 tttgtttttc aaaagaagtt ttcaccacat tttctaagtt accagagttt ttactctctg 420
 g 421

<210> 29931
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29931

tgccgcccag ctgcgccagg cgagcgagggt cacttctctt agatgcaaca gccttctgga 60
 ggaatcttct ggagggccca agtgggacctg gttgctattt acaccccccc tatttactaa 120
 atgcgcccc ctttctattt tgtaattctt tttccgtaac gttacgaaac tttacgaatt 180
 tcgtaacgat acttattttt cttccgcaag gttacggatc cttacggatt atgtatttac 240
 tcttttttag ctttcgaaga agttacggaa acttacggat tgcgcaaaaa cacctctttt 300

cgacttccgc cacattacgg attttcacgg atcgcgcaac cctgcttctt ttagatttct 360
gagacctctc gggacttcat ttattgtgca acataggacg ccaaatatct canagcggct 420
aaccaaaggg tgcattgcat caagtaataa tcccc 455

<210> 29932
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29932

agcttgagga gtangcttca atgtatgana aganagaggg agagaaagag agagggggga 60
gcacgaaatt gacagaagaa aaaggagag aagttaaact ttgagttgtg tctcacaaga 120
ctctcattca tcanagttac aacaagtgtt acacatgctt ctatttatag attagataac 180
ttccttgaga tgctttcttg agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240
gagaagctag agcttagcta cacacacccc tctaataact aagctcacct ccttgagaag 300
cttccttgag aagattccta aagaagctag agcttagcta cacacaccn ctataatagc 360
taagctcaca tccttgagat gagaagctag aacttagcta cacaccnct ataata 416

<210> 29933
<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29933

tcattgtttt ggtatgtacg cgaaggactt caagtcttcc aacttcatca ggaacaccaa 60
tatcaatttc actatcaaatt ctaccagaca ttttcaatgc aggggtcaatg ctatttggtc 120
gatttgtagg cagtggcagt gaaattaacc tcaactatat accaaaggat atccacctca 180
tatgccgctt ggggctataa tctacacata aaggcacaac taaaaatcta ttgaggacca 240
cgtagagaaa ctaaagccac caataagtgt aaaatgctca gatcaaagat agcccaccaa 300
taaaaaatgag atttttatta tatatgtatg caaaattatg aaaggaaagg tatatttggt 360
tgataatcct agctgtcaag gaattacttt ntataaccat tagattaaaa aaataagagg 420
tgatataagg agtaacaaat ttgtctagat ataaaaatat 460

<210> 29934
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29934

agcttcgaag ctatgggngg attttctttc ttgctnngga atnngngatt gcggtccttt 60
 tgtcctccat gtttatcttt acgttgctta accttttctt gatactatgt ttcttgacag 120
 tgcaagcgac actataccta gggatgaagt tgatcttata aaggatggtt tatcgtatag 180
 aatgagagtg agagaaacat gagagacaga agcgggcttg ttcgttttgt ccagattcgt 240
 tacttaggcc acccacacgt gaacaagaat gatccgtgaa ttcaccctag cgtgacacgt 300
 gcttgcatat cagccacgat tagctcttat taactctccc caattctagc ttgaacttct 360
 agcataacca tcgactagta aaatcaagct acttaatcct gccttgtgta cctgcact 418

<210> 29935
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 29935

tattgaataa gtgcttaatt atgttgatta gtaactatca aaatggttta aaagtggaag 60
 ttacctggc tattaaggca aggatgattg cggaagttac cattaacagc ctttagtagt 120
 tctacaagat ggtagggta ctggcaagaa aatgctcgtg gtactatata tctgtgcaat 180
 gtgattgcct gaacatggct ccgtggcaat ccaagcatgt caagtagagt gtcacctcca 240
 cacatgatgg atggtgcccc aaaggttatg acaggaagca gagaggagaa tagcgcttcc 300
 ttccttatcg gtagcataag atttacaagt aatgccaaag tcccccaag ggaatgacca 360
 gtgaaacgga tagttgcacg tgaaccatga gatttatgtg agcacgaatt tctggcaaca 420
 tctgttgata tgtccctttt gcagcctcgt atatac 456

<210> 29936
 <211> 313
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 29936

acaaccggcc agaccctgga gaacaatcta gntcacactc caataataag ggcacctgac 60
tggagtaaag agtttgagct catgtacaac gctagtgact atgcagtagg ggtagttctt 120
ggacaatgga gagagaatgc attccatgcc atttttatgc tagcaagatc ctgaatgatg 180
cacaactaaa ttatgcaact actaagaagg agatgttggc cattgtgtat gccttataga 240
agatccgagc gcacttaatg ggctccagag tcattatctc tactgatcat gcataatca 300
tatacctttt cac 313

<210> 29937
<211> 387
<212> DNA
<213> Glycine max

<400> 29937
acttctccaa cccttgacct gacttcttgg aaagcctttt cacagcaaac tctggggccat 60
ccttcagtct tcctgctaa ccaaattggt agaaatattt tgagtttaga aaacaaacat 120
ctatagttgg ttttccatat caccttgtag acaggtccaa agccaccttc tccaatttg 180
ttactctcag cgaagtctc agtggctctt tctatgatgg ggaaatcaaa tgtggacaaa 240
tcaatgcctt cttttctcag ttttcgttcg aaatgggtcc tataaattat tcttgctacc 300
cctgataggt ttgaagataa caatagagaa gcactatgac actcacaatg tgcacgtatg 360
atacataaac ctactatcat atattag 387

<210> 29938
<211> 312
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29938

tatagaaaaa tttttccaaa tagacttata caactaataa ataatagtta tgaattaaat 60
tgattttatt aaccatgtat tggcaataca aattttttta cattgtcaat cagctaaaaa 120
aatatcattt gtataatttt ttttaaatta ttatatatga taaattgtga ttgaataatg 180
aaataaaatt aattaataac attattatat atatatacta ttttttatta ttaattntat 240

attactggaa atagaatttg gtaattaatt tatgaatttt tattcttaaa gtgatgattt 300
aatgatagaa at 312

<210> 29939
<211> 445
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29939

tgtaattatg taatatattg tgtaaaagaa gtattgtaaa ttatggatat tatgagttgt 60
ataattatat gacaattatc tactgtatct gcagttctaa ttataaataa gagtctccac 120
tgtgtagtca agacacagat tcattcacat gaactctcat ttttcttct ctcacaaggg 180
attacacaaa agattaaaag gcagaaagtt tgcttacctc caaaagttgg agttcttcag 240
atgcttgtct caatgaatct atcacaatct cataattntc aaagactgaa aaagaaattc 300
aaatcagtca agtaagattc agttaaagcc ccaacaaggg gagagaaaaa ggatcaacac 360
cctcagaaaa ctattgatga aaatgtggng aaactaattt cccctattt gattattatc 420
ttttacagaa tcagaaattt ggcta 445

<210> 29940
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29940

tagcttgnan gattatggng taccatcac atgtggtact aggtggcggg cgggcgatgg 60
tgcacaacaa gttttccaca tccacaatgc gcgcataaac ccaccatccc ctgttgccca 120
cctccatcta agctcacgta ctcccatgta gcccatatcc tcatttctct caacaccggg 180
tcccatcaa tcctctcaag ctccacacac atccaagcan aacaacattc aaactgcaca 240
agctatcaca gccaaagcaaa acagagcata tgcagaaaac tntgccaaaa caccaaccaa 300
atcacagctt ttctcactta aagaccccag taacaattcc ttcgttctgg ttcattaacc 360
gttgatcga ctcgaaaatt tactggaagt ctctaatact taagcctac 409

<210> 29941

<211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29941

ctgatgatat ggtgttcgcc ggcaaaagga tcgatgtggg tctgaaaaaa ggcaaattta 60
 gtcgtcctgc ttggacgaat gagaaaactg gggcaaata agaggggtgag gatgaaggag 120
 aagcccgtgc tgtgactgcc attcctatac agccaagttt cccaccaacc caacaatgtt 180
 attactcagc caataacaaa ctttctcctt acccaccgcc cagttatcca caaaggccat 240
 ccctaaaatc aaccacaaag actacctact gcacttccaa tgacaaacac caccttttagc 300
 acaaacaaaa aacatcaacc aagaaatgaa ttntgcagcg agaaagcctg tagaattcac 360
 cccaattccg gtgtcctatg ctgacttgct cccttatcta cttgataatt caatggtagc 420
 cataacccca accaagggtc gtcaacc 447

<210> 29942
 <211> 192
 <212> DNA
 <213> Glycine max

<400> 29942

ttacgcatct gtgcggtatt tcacaccgca tatggtgcac tctcagtaca atctgctctg 60
 atgccgcata gttaagccag ccccgacacc cgccaacacc cgctgacgag aacccttgc 120
 ggtcgcatcg tatattacta tcaataatag gtgctatacc gagtacttat cgagtaacta 180
 tgactaatat ag 192

<210> 29943
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29943

tcgcnnncnc cctttgtttc tcaactnnaan cntttttttt tattgttgaa taataatagg 60
 gttgtcaatg acatacatgg gtcttctact aagaagaaca aagagtagca agagaagcta 120
 ccccttggtg tgctcaaggc agtggaatt atttactcta aagccaactc cgtggtaact 180

ttccttcttc gtttcttgct tacttgcttg tgtactcaac tattttatgt tatgggttgc 240
 aaaacaaaaa aggaaaataa aaatgacttg aggttatattt atttcttgag gaggttgaaa 300
 tagaaatatac acgagcatta aaagaaactt ttttagtggt ttgataaata ataatttttt 360
 ttgggtaggc tgaatacatg tttcaatatc atcttat 397

<210> 29944
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 29944

tcaagaataa tggcctcagc aaacttctta ttcccataag gaaactctat aaataggcct 60
 cctatttttta atggagaggg ttaccactac tggaaaactc gaatgcacaa tttcattgag 120
 gcaatagatt taaacatttg ggaagccata gaagttggac cttatgtacc caccatgggtg 180
 gctggtaata caataataga gaaacctata gaagagtggg ttggaagatga aagaagatta 240
 gtgcagtaca atttaaaggc taaaaacatt attacttctg cccttggaat ggatgaatat 300
 tttagggttt caaattgtaa gagtgataag gatatgtggg acactctaca agttacacat 360
 gagggaaaca ctgatgttca aagatctagg ataaatactc ttactcatga gtatgaa 417

<210> 29945
 <211> 291
 <212> DNA
 <213> Glycine max

<400> 29945

ccttctgtgc tcttgggtgg atgtgttatg gctatgcttt cacactttta attataacat 60
 tacatagcag gagtgactct gatgggtggc agtattctgt catggcatac atgatcttaa 120
 gcatgcaatg ccgcaacacc ttgtattatc tattactgga tgcaccatct accaggggca 180
 cactaggcag tgcatagtgg agcatgagtg aatatccaac tatcgcgga cgctcattga 240
 tattcgagtg catttctagt gtatcatctg ctatatctat ctttggatta a 291

<210> 29946
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 29946

agcttccacg tttgtcagag aatgggtggc aataacagcc tctatcaaga agtggcgcat 60
cgcttcatca tctcactta taatcgcaac ctcaaagagc tgatgactca ggtcgtgaag 120
acacctaaac aacaaatgaa ccttgagcgt cttatgggat ataattatag tatctagaat 180
tgggtccgaca gcacgaacat ggttcgagat gcattatctc acattttgga gaactcgtca 240
tcaaccttgc tacttctgtc agtaccatgt ttcacattct tggaagagct taagagccgg 300
ttggccccgag attcagtctt tcagcaactc cgacaagaca ttagcgataa cccgaaagat 360
tatccagagt atgtcatcac tcagaactta atcct 395

<210> 29947

<211> 439

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29947

tggaagata gtggcagaaa tntaactagc gctaacttag agcttaataa attatgagag 60
aaattagcaa agtaggctta cttgttaaag agacctatac ttaagaaact tgtacgcact 120
gcaagtctgc aacagttatt tggcccacaa gcatgtatct attcccttgt gcaaaatctg 180
atTTTTgtag gctgacccaa atagattagt ccaaaatgaa atcttctgtt tttagcttta 240
atTTTTtgat taaaattact tttttttatg taggtaaata agttagttcg tgtaatttta 300
tagactaaac tcgttcttaa agcagatcaa tccgcataaa cctacttggg ctatgggttg 360
taaggactta tccacaatat ctattaattn taggaaaact atcaacgtac accctatntt 420
tggaagaaat tataatatg 439

<210> 29948

<211> 362

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29948

ngactcgttc ttaagcgaag atgttcgcaa gagagattca ggagaatctt tccgttatgt 60
ttccattca tcattgaata cctgaaggca gggaaagact acctagagg gcagaatgtc 120

aaggcagatc aaagtcaaga gggaaggtca gagaaatttc aagtgacgta ctttgctgaa 180
 tgtgacaaga aggtcactta gcatcagtgc atgcaccaag aagaccagtc acacacacac 240
 aacgcgatga tgatgatcgc aatgcacact gatgactgag atgcattatt gcagttgata 300
 gtctgtgatc atgatcatga ctcaggctcg tcacactctc tctaagatat gctactaatt 360
 tt 362

<210> 29949
 <211> 460
 <212> DNA
 <213> Glycine max

<400> 29949

taacaagatt tcggtgctga agtttagcaa tcagtttgac ttcattcttg aactctgtca 60
 ttccttgctc cgagcctctt gagagcctct tcacagcaat ttcttgctca cttactaatc 120
 ttccctacaa aataaataaa taaattggaa taatcttaat cacattgaca ctttttgagg 180
 tctttttcct aaaacgacaa agaagattga atcaccttgt atactggctc aaaaccacct 240
 tctccaatct tgttgtttat tgagaagtta tcagtggcaa tgactattgt tgaaaggtca 300
 agtaagggga gatcgatatt ttcttcactt cctccctat tttgatcacg tacaatatct 360
 gaatactctg ataaaatgga acaatggctt caatttagtt aaaggcaciaa tgtatatgat 420
 agtttagtca agtcaataac tttgcagcat tacatctttg 460

<210> 29950
 <211> 366
 <212> DNA
 <213> Glycine max

<400> 29950

agctaggccc gtcccgctgc atctctctct ctcttgccag ccaagacctg gacatcatct 60
 tgcaaactct agcagcgac gaacacttta tcaccatcca acctagtgcc aagcaactat 120
 ggaagacagt tggcgatcg accttatggc cttaacaaag gcgatgggtg cgtagcaac 180
 cttatggcac tccactttcc agacagtgcg agcagtagcc ctgcatttgg cgacctatac 240
 ctgcaaggac gtcaccttga gcaaagccta atgggtgccac tcgccattct cctctataat 300
 cgccacactt tgctggagaa cactttggca aaagatggag cgttcgatac cccagccaac 360

366

<400> 29951

<210>	29952
<211>	418
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      29952
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<210>	29953
<211>	457
<212>	DNA
<213>	Glycine max

<400> 29953

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gacaaacaga aatgcagcac aaagtaacaa ggtgcctgta acaagaatcc atccaataac 120
caccaagctg cagccacgat aaaaaaaaaa aaaaaaaaca gaacatcttt tactgataga 180
aacttaacgg gagacaaatc tatcagagtg aaggaaatga aatgaattca acttacgagt 240
atacaggacc cggcaaagca agtaaagaaa atactgcaaa aattaaatca agttcatatg 300
atttggttaa cattgagtat agagtaagaa aaagaaaaaa gacaaaacca aaatcaaaca 360
tacacaatcc gagaaatgca acaaagatca taacagcagc aacagtaaca agagccagtc 420
tcctgcagat gatcacaaca agcaatgtta attaate 457

<210> 29954

<211> 361

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29954

ggtttgtatt gccattttgt tctaagggtg gcattttcttg gtaaaactaa ctttccaaat 60
gtttgccttc gcangaatgg ccccgaggaa gcttgctca nagagggtcca ggaaggacaa 120
ggcggtcgaa cgaactagtt ccgctccgga gtatgacagt caccgcttta tgagcgctgt 180
acaccaacag cgcttcgagg ccatcaaggg atggtcgttt ctccgggagc gacgcgtcca 240
gctcanggac gacgagtata ctgatttcca ggaggaaata gggcgccggc ggtggacatc 300
actggttact cccatggcca agttcgatcc agaaatagtc cttgactttt atgccaatgc 360
t 361

<210> 29955

<211> 464

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29955

actcaagctt actaaaacag gagcatatct cttctcagat cctactctat atatatcagt 60
agttggagct ctccaatact ccaccataac cagaactgag ctaagttttg ctgtaaacaa 120

agtctgtcaa ttcattggtca tactcttgaa actcactgag cagtagtgaa aagaattctc 180
 aagtatctaa aaggctcttt acaccatggc ctactttctca nagctgctac tccaggaatt 240
 accattccta ttaaggccct atgtgatgca gattgngctt ctaaccctga tgatcacaga 300
 tctacttttag gagctgctat ttattttggt cctaacctta tatcttggtg gtctaagaaa 360
 caacagattg ttgcaaggtc aagtactgaa gctgagtatc gaaacctatc tcaagctaca 420
 actgaagtag tgtggatnta ttagaattct aacagtatca taga 464

<210> 29956
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29956

tctagtattc aaagaccttc ttctgtaagt gtttgttgtc tctatgcgaa tagaattctt 60
 cacttgagct ttgtcgcaag ctaccctttt gcgggagagc gaggcaaggc tcacaggtgc 120
 gtcttccata ggaagaaaat gcgcggagtc tccaccaacg tttattgaaa ggaaaacggt 180
 agaaaaatca aaggaaaccg gtcatagaaga atattccaga ttcgggagtt atctttacgt 240
 ttgaggaagg tattagcacc tctcacgttt gtccccaag gacaacagcc ttagattaga 300
 attgtgtgaa attatgtatc taaactntta tttctttttt attttttgag gtcgacaaaa 360
 gcggtgctct tgctcctacg taccctccat cgaagaggaa atcagaccta cgtagttctt 420
 tcanaaggga caaatcaatn gattct 446

<210> 29957
 <211> 395
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29957

tttgcttact cttntctct tgcaaccac tccaatttca agaaacccc ttctctgcca 60
 ctctacaga tntctttctt tatattntaa tcgttttttt ttctttttct gctgggtttc 120
 ttttccctc cactttcata tcttccacat atattgtcca ttttctgggt tctctctct 180
 ctttcacca ctttcagaaa agattctcac tgtcaacttt tcttggtttt ttcctttaat 240

<210> 29960
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29960

tctgaccaag ataaanaaaa gacacactaa ctaataaaaa ttaaataacc acgtttaaga 60
 gtgttttttt ccccccttaa atgcaatata taaagtagca atgtttgtca tattcataga 120
 catagttgag agtttactcc ttaggtaata ttatacttta taatcattta atttttttta 180
 aatttttttt atcaatttta aattgaattt attttatata tgaagtatca aacatttttt 240
 ttttattttt ttataaaatt tgtagacatt atctattcta taaaaacttc taatataatg 300
 attggatcat tgaaatttaa tatcaacaga attatcaaatt tgactaactt taccaagtta 360
 ctcttgaagt cgcttgtctc aatcttttta gatactaatt tctttaatct cttttacaca 420
 tgcattgata ttttcttaga tattga 446

<210> 29961
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 29961

tctagcanga ngttttaata ctgagangac atgaaactat atgcgngaca tttcttgaag 60
 attgtgtttg acttaccac tatgcatcca attttaaatt gtttgtaaatt agaacaaata 120
 acgaaaaaga tgggtggaact cacaaaccaa gaggagggtg aattgatttc taaatcaaat 180
 caaactttta aaaaatagag ctataaaaaa cttcttttcc aatgatcgta tcacaaactt 240
 ttgataaacc aatatttaatt caatcatcct ttacacaaag tcttttgcta taattgtttc 300
 ttataatata ttctctttta ccttcagtaa attgatcaag actagaataa gaaagataga 360
 tatgatcaag agaagatgtg caccaatttc tatattgggt cactctcta 409

<210> 29962
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 29962

taactgaatg gagtcgttgt tggggaggag ttcttcgtga tcttcttggt gttgtgacca 60
tctagtatgc tcataatgta acattatggt ttctataatg attgattaag tgttttaatt 120
aaattgtaag agtaattaaa ttttaatttgc gtgtcgtaat ttgtggtggt tatagttaat 180
gtttttgtta tgcttatgct tatgcttaaa ccttatttta ngtgtgaata atacgtttta 240
gagtgggttg accgaggtaa gtgggccttg agtgataagg atgagatgag tgagtttaga 300
aagtgaaaat gtgagattag aaggaatagg aagagtcaga gactcaacat atagggattt 360
aaatntgaac cagatcacia acactctcat tcctctccaa aacaactcac aattagagaa 420
tgtgagtcac tgaaatccta gtacaaa 447

<210> 29963
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29963

tcttcttgac ggtcatctgt ttagtcttgg tggatcatctc gagagtctcg gtggccatgg 60
tggatagggt ctgagtgagg caatatacaa cctcttcaag gcggtccatg gtggtgtggt 120
ggccgttgtg agcgagcatg attagaggat ggtgtagggg ttccagtaag ggaagaggca 180
agtaatggca gccatggatg ataggtcaaa acaatttgtt acgaacatta ctacactatg 240
ctatgctaac tacactatta ggtatttcat aattcttctt tgccttattt cattactgtg 300
gtgtatttat aatgatcata tagagatata atttggcact tttggcccat aacaaanaag 360
tataacagaa atgcaaaaaca acatagtaat gggatcatatc tagtttggtg taac 414

<210> 29964
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29964

tatcaacatc aaacttggag aaagagttct tgtggtcaag acatgagaag caatcaagta 60

catgaattgt gttgagttt

439

<210> 29967
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29967

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tcaagacatg cacattttct cattacgatt gtaagtgatt tttattcttt gttttcatgt 240
ttaattttgt gcaagtaaaa taagtatctt ctctgtcatt cattcttatt ataactcctt 300
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<210> 29968
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29968

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cactctatgg agtgaaaaaa attatgtaaa atgagaagta attatggatg tgtctattat 240
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gcacctttct tttcactctg tacgcgcttc tcacctttta cagcaaaata gaaaatctaa 360
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<210> 29969
<211> 359

<212> DNA
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<223> unsure at all n locations
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aatcgngta cggtaaccta gttgtttgta tgtttgtctt aatgcagttc tggtcgagtt 300
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<210> 29970
<211> 460
<212> DNA
<213> Glycine max

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<210> 29971
<211> 397
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 29971

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<210> 29972
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<400> 29972

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 tatgtagtaa atgtcgaggt caccctgtcg ggcacaggca actcccccc 230

<210> 29973
 <211> 323
 <212> DNA
 <213> Glycine max

<400> 29973

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 atgttcatct gtttcttcaa tcctattttg gattttcatg attatgaata tgcttaggat 180
 tgaaaacaaa ttagtttagg aatttcttcc ctaatcttga ctttaatcac agattgctta 240
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<210> 29974
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 29974

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ctcgcgctta gcggtcgggc ttgatattga tgccctgcca gattcttctg tcgtgctaag 180

cgcgctgaag ctgtgcttat cccaataatg agctcagctc aactgtcact ttgggcactt 240

catgacttag actctatttc acttgaaatt gcacatatgt catcattaaa tccaatggat 300

atattctaga gacaacttta tccatacaaaa aaaattatctt acaaaaatca ctacaaaata 360

accattaatt ggagaactat actagttttg gaatatgaat tctatacana agttagtcgt 420

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<210> 29975

<211> 447

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29975

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aactcatata aagcggaaac aaataagcgt aagcttcaaa caggaaattg gattaatact 180

gcatgtggtt gcaattcttt ttttaaaaact ccataggatc cttaaaccctt tttcattatt 240

atgttggttaa tgtttatgga cacaataaat ggaatatata aatatttata cattcgctat 300

aaagaaagaa aataaaaagg ggtgcgcgcg ttcggaacat acaataagaa agtgtttgat 360

atgccatggg atcaacaatg catccaacaa agagtaaaca agaattagac gcaaatacaca 420

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<210> 29976

<211> 210

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 29976

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